

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

36-039-22096

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 35 #8 (API 3003922096)	Facility Type: Oil/Gas Well Site

Surface Owner: Jicarilla	Mineral Owner: Jicarilla	Lease No. Jicarilla 35
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	36	25N	5W	1750	South	840	East	Rio Arriba

Latitude 36.35402 Longitude -107.30483

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: 9/15/10
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell - OCD Dixon Sandoval - Jicarilla	
By Whom? Ed Hasely	Date and Hour: 9/15/10	
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.*

Soils underneath the tank during the below-grade tank closure were visually impacted According to the Pit Rule, this is an indication of a past release

Describe Area Affected and Cleanup Action Taken.*

Approximately 360 cy of impacted soils were excavated The bottom of the excavation is solid rock The sample tested 160 ppm for TPH utilizing EPA Method 8015 Due to the solid rock bottom, no further remediation is necessary The impacted soils hauled to a commercial disposal facility The excavation was backfilled with 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

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 <u>Ed Hasely</u>		OIL CONSERVATION DIVISION	
Printed Name Ed Hasely		Approved by District Supervisor <u>James D. Kelly</u>	
Title Sr Environmental Engineer		Approval Date <u>3/6/2012</u>	Expiration Date
E-mail Address <u>ed.hasely@energen.com</u>		Conditions of Approval	Attached <input type="checkbox"/>
Date <u>11/12/10</u> Phone <u>505-324-4131 / 505-330-3584(cell)</u>			

* Attach Additional Sheets If Necessary

njk 1206636727



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-0168
Sample ID:	<u>Rock</u> Comp Bottom	Date Reported:	09-30-10
Laboratory Number:	55997	Date Sampled:	09-28-10
Chain of Custody No:	10417	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)	7.7	0.2
Diesel Range (C10 - C28)	152	0.1
Total Petroleum Hydrocarbons	160	

ND - Parameter not detected at the stated detection limit

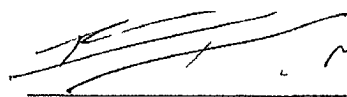
References Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla 35 #8

- Rock Bottom



Analyst



Review



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

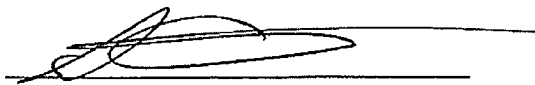
Client:	Energen	Project #:	03022-0168
Sample ID:	Comp Sides	Date Reported:	10-01-10
Laboratory Number:	55998	Date Sampled:	09-28-10
Chain of Custody No:	10417	Date Received:	09-28-10
Sample Matrix:	Soil	Date Extracted:	09-29-10
Preservative:	Cool	Date Analyzed:	09-30-10
Condition:	Intact	Analysis Requested:	8015 TPH

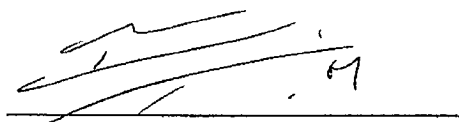
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.7	0.1
Total Petroleum Hydrocarbons	0.7	

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 35 #8**


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0168
Sample ID:	Rock Comp Bottom	Date Reported:	10-01-10
Laboratory Number:	55997	Date Sampled:	09-28-10
Chain of Custody:	10417	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	2.0	0.9
Toluene	46.3	1.0
Ethylbenzene	13.5	1.0
p,m-Xylene	11.2	1.2
o-Xylene	48.9	0.9
Total BTEX	122	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	103 %
	1,4-difluorobenzene	102 %
	Bromochlorobenzene	104 %

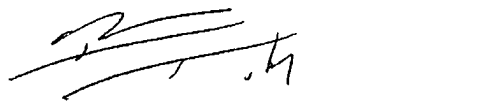
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Jicarilla 35 #8



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0168
Sample ID:	Comp Sides	Date Reported:	10-01-10
Laboratory Number:	55998	Date Sampled:	09-28-10
Chain of Custody:	10417	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	1.3	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	2.0	1.2
o-Xylene	ND	0.9
Total BTEX	3.3	

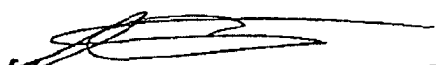
ND - Parameter not detected at the stated detection limit.


Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	106 %
	1,4-difluorobenzene	102 %
	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 35 #8



Analyst

Review



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Energen	Project #:	03022-0168
Sample ID:	Rock Comp Bottom	Date Reported:	09-30-10
Laboratory Number:	55997	Date Sampled:	09-28-10
Chain of Custody No:	10417	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	2,900	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 35 #8

- Rock Bottom

Analyst

Review



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

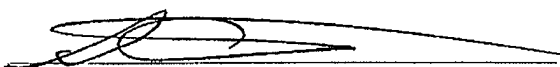
Client:	Energen	Project #:	03022-0168
Sample ID:	Comp Sides	Date Reported:	09-30-10
Laboratory Number:	55998	Date Sampled:	09-28-10
Chain of Custody No:	10417	Date Received:	09-28-10
Sample Matrix:	Soil	Date Extracted:	09-30-10
Preservative:	Cool	Date Analyzed:	09-30-10
Condition:	Intact	Analysis Needed:	TPH-418.1

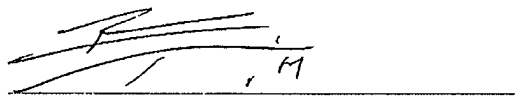
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	72.6	7.3

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 35 #8**


Analyst


Review



envirotech
Analytical Laboratory

Chloride

Client:	Energen	Project #:	03022-0168
Sample ID:	Rock Comp Bottom	Date Reported:	09-30-10
Lab ID#:	55997	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:	10417

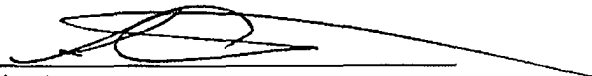
Parameter	Concentration (mg/Kg)
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Total Chloride


25

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 35 #8**



Analyst



Review



Chloride

Client:	Energen	Project #:	03022-0168
Sample ID:	Comp Sides	Date Reported:	09-30-10
Lab ID#:	55998	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:	10417

Parameter	Concentration (mg/Kg)
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Total Chloride

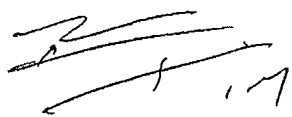
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Jicarilla 35 #8**



Analyst



Review

Ed Hasely

From: Ed Hasely
Sent: Wednesday, September 15, 2010 9:17 AM
To: 'Powell, Brandon, EMNRD'
Cc: 'Dixon Sandoval', Billy Stalcup
Subject: RE Jicarilla BGT Closure Notifications

Brandon – This is to notify you that hydrocarbon impacted soils were discovered underneath the BGT on the Jicarilla 35 #8. Per the Pit Rule, this is an indication of a possible past release.

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 Energen Resources Corporation

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Cell (505) 330-3584