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 Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application  Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit
Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request  Please be advised that approval of this request does not relieve theoperator of hability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator <u>Energen Resources</u> OGRID # 162928
Address 2010 Afton Place, Farmington, New Mexico 87401
Facility or well name
API Number 3003906531 OCD Permit Number
U/L or Qtr/Qtr N Section 7 Township 26N Range 03W County Rio Arriba
Center of Proposed Design Latitude 36 47954 Longitude107 1717 NAD ☐1927 ☒ 1983
Surface Owner
Pit: Subsection F or G of 19 15 17 11 NMAC   RCVD JUN 1 '12     Temporary   Drilling   Workover   OIL CONS. DIV.     Permanent   Emergency   Cavitation   P&A   DIST. 3     Lined   Unlined Liner type Thickness   mil   LLDPE   HDPE   PVC   Other     String-Reinforced     Liner Seams   Welded   Factory   Other   Volume   bbl Dimensions L   x W   x D     Closed-loop System: Subsection H of 19 15 17 11 NMAC
Type of Operation P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other
Liner Seams
Selow-grade tank: Subsection I of 19 15 17 11 NMAC   Volume
5
Alternative Method:

Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

Fencing: Subsection D of 19 15 17 11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate Please specify	hospital,	
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)		
Signs: Subsection C of 19 15 17 11 NMAC  12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  Signed in compliance with 19 15 3 103 NMAC		
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 NMAC for guidance  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s) Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of consideration of approval  Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	office for	
Siting Criteria (regarding permitting): 19 15 17 10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	Yes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  - Topographic map, Visual inspection (certification) of the proposed site	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits)  - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application  - NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☐ No	
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No	
Within an unstable area  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	Yes No	
Within a 100-year floodplain - FEMA map		

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC  Design Plan - based upon the appropriate requirements of 19 15 17 12 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC
and 19 15 17 13 NMAC  Previously Approved Design (attach copy of design) API Number or Permit Number or Permit Number.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15.17 9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC  Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC  Previously Approved Design (attach copy of design) API Number  Previously Approved Operating and Maintenance Plan API Number  API Number  (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19 15 17 9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15 17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15 17.11 NMAC   Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Proposed Closure: 19 15 17 13 NMAC  Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative  Proposed Closure Method Waste Excavation and Removal
Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required.	Steel Tanks or Haul-off Bins Only: (19 15 17 13 I drilling fluids and drill cuttings. Use attachment if	O NMAC) more than two	
Disposal Facility Name	Disposal Facility Permit Number		
Disposal Facility Name		· · · · · · · · · · · · · · · · · · ·	
Will any of the proposed closed-loop system operations and associated activities o  Yes (If yes, please provide the information below)  No			
Required for impacted areas which will not be used for future service and operations  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC			
Siting Criteria (regarding on-site closure methods only): 19 15 17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.			
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS,	a obtained from nearby wells	☐ Yes ☐ No ☐ NA	
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS; Database search, USGS;	a obtained from nearby wells	☐ Yes ☐ No ☐ NA	
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Database Search, USGS	a obtained from nearby wells	☐ Yes ☐ No ☐ NA	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other siglake (measured from the ordinary high-water mark)  - Topographic map, Visual inspection (certification) of the proposed site	gnificant watercourse or lakebed, sinkhole, or playa	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site, Aerial photo, Satellit		☐ Yes ☐ No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that les watering purposes, or within 1000 horizontal feet of any other fresh water well or NM Office of the State Engineer - iWATERS database, Visual inspection	spring, in existence at the time of initial application	☐ Yes ☐ No	
Within incorporated municipal boundaries or within a defined municipal fresh wat adopted pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality, Written approximate	•	Yes No	
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visu	al inspection (certification) of the proposed site	☐ Yes ☐ No	
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining	g and Mineral Division	☐ Yes ☐ No	
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geolog Society, Topographic map	y & Mineral Resources, USGS, NM Geological	☐ Yes ☐ No	
Within a 100-year floodplain - FEMA map		☐ Yes ☐ No	
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19 15 17.11 NMAC  Protocols and Procedures - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC			

Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief
Name (Print) Title
Signature Date
e-mail address Telephone
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  Approval Date: 6/04/2012  Closure Plan (only) OCD Conditions (see attachment)  Approval Date: 6/04/2012  OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19 15.17 13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date: 5/23/12
Closure Completion Date: 3/23/12
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)  If different from approved plan, please explain
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:  Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.  Disposal Facility Name
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location Latitude Longitude NAD 1927 1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan  Name (Print)
Signature Date 5/31/12
a moul address and basely@energen.com Tolenhone (505) 324-4131

### BELOW-GRADE TANK CLOSURE REPORT

### **ENERGEN RESOURCES** Jicarilla 97 #2

### **CLOSURE STEPS:** (Closure Report information is in **bold**)

- (1) Notify the surface owner by certified mail, return receipt requested, of the plans to close the below-grade tank. Attached
- (2) Notify the Aztec OCD office (Brandon Powell 334-6178, Ext 15) verbally or by other means at least 72 hours. but not more than one week, prior to the planned closure operation.

### Attached

- (3) Remove liquids from the below-grade tank Dispose of the liquids and sludge in a division-approved facility No disposal of liquids was required.
- (4) Remove the below-grade tank for re-use in an above-ground setup or for disposal in a division-approved manner. Tank removed.
- (5) Unless the equipment is required for some other purpose, remove any on-site equipment associated with the belowgrade tank.

### All remaining equipment is required for operations.

- (6) Test the soils beneath the below-grade tank to determine whether a release has occurred.
  - Collect, at a minimum, a five point, composite sample;
  - Composite sample was collected.
  - Collect individual grab samples from any area that is wet, discolored or showing other evidence of a release,

No additional sampling was necessary.

Analyze for BTEX, TPH and chlorides to demonstrate

- Benzene concentration does not exceed 0.2 mg/kg, as determined by EPA SW-846 methods 8021B or 8260B
- Total BTEX concentration does not exceed 50 mg/kg, as determined by EPA SW-846 methods 8021B or 8260B
- TPH concentration does not exceed 100 mg/kg, as determined by EPA method 418 1
- Chloride concentration does not exceed 250 mg/kg, as determined by EPA method 300 1 or the background concentration, whichever is greater

Constituent	Limit (mg/kg)	Actual Results (mg/kg)
Benzene	0.2	ND
Total BTEX	50.0	ND
TPH (418.1)	100	769 (exceedance)
Chlorides	250	100

(7) <u>IF the soil analyses show that the soils meet the concentrations specified in (6) above</u>, backfill the excavation with compacted, non-waste containing, earthen material in a manner that will prevent ponding or erosion. If the area will not be needed for operations, reclaim the area as described in the "RECLAMATION" section.

Not applicable

(8) <u>IF the soil analyses show that the soils exceed one or more of the concentrations specified in (6) above, notify the Aztec OCD office (Brandon Powell – 334-6178, Ext 15) and proceed per 19.15.3.116 NMAC</u>

Attached. Proceeded per 19.15.29 and 19.15.30.

NOTE: If groundwater is encountered at any time during the closure process, the OCD office will be notified and a specific closure plan will be submitted to the Aztec and Santa Fe OCD offices for approval **Not applicable**.

### FINAL CLOSURE REPORT:

Within 60 days of closure completion, submit a closure report on form C-144, with necessary attachments to document all closure activities including sampling results.

This submittal is the closure report.

### **RECLAMATION:**

If the area is not needed for operations, reclaim the area to a safe and stable condition that blends with the surrounding undisturbed area. Restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover, recontour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate.

- (A) Construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material. The soil cover shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.
- (B) Seed or plant the disturbed areas the first growing season after closing the below-grade tank Drill on the contour whenever practical or by other division-approved methods. The goal is to obtain vegetative cover that equals 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. During the two successive growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.
  - (C) Repeat seeding or planting until it successfully achieves the required vegetative cover.
- (D) If conditions are not favorable for the establishment of vegetation, such as periods of drought, contact the Aztec OCD office to discuss possibly delaying seeding or planting until soil moisture conditions become favorable or using additional techniques such as mulching, fertilizing, irrigating, fencing or other practices.
- (E) Notify the Aztec OCD office (Brandon Powell 334-6178, Ext 15) when the area has been seeded or planted and when it successfully achieves re-vegetation.

Area is needed for operations. Upon abandonment, seeding will be deferred to the BLM / Tribal requirements per the BLM / OCD MOU.



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	BGT Bottom	Date Reported:	05-03-12
Laboratory Number:	61951	Date Sampled:	04-27-12
Chain of Custody:	13860	Date Received:	04-27-12
Sample Matrix:	Soil	Date Analyzed:	05-03-12
Preservative <sup>-</sup>	Cool	Date Extracted:	04-30-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution	50

	Dilution.	อบ	
1		Det.	
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	ND	10.0	
Toluene	ND	10.0	
Ethylbenzene	ND	10.0	
p,m-Xylene	ND	10.0	
o-Xylene	ND	10.0	
Total BTEX	ND		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	92.6 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	97.1 %

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 97 #2

Analyst

Review

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879





Client:	Energen	Project #:	03022-0001
Sample ID.	BGT Bottom	Date Reported:	05-02-12
Laboratory Number:	61951	Date Sampled:	04-27-12
Chain of Custody No:	13860	Date Received:	04-27-12
Sample Matrix:	Soil	Date Extracted:	05-01-12
Preservative:	Cool	Date Analyzed:	05-01-12
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

769

7.4

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 97 #2

Analyst

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879





### Chloride

Client: Sample ID: Energen

Project #:

03022-0001

**BGT** Bottom 61951

Date Reported:

05-02-12

Lab ID# Sample Matrix:

Soil

Date Sampled:

04-27-12

Preservative:

Cool

Date Received:

04-27-12

Date Analyzed:

05-01-12

Condition:

Intact

Chain of Custody:

13860

Parameter

Concentration (mg/Kg)

**Total Chloride** 

100

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 97 #2

Analyst

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879





April 16, 2012

Jicarilla Apache Nation Einvironmental Protection Office P.O. Box 507

Dulce, NM 87528

Attn: Mr. Hobson Sandoval, Environmental Specialist

Re:

Below Grade Tank Closure

Jicarilla 97 #2

Dear Sirs:

Engergen Resources plans to close the below grade tank located on the well location listed bellow. You are on record as the surface owner where these wells are located. New Mexico Oil Conservation Division (NMOCD) rules require notification to the surface owner of our plans to close the below grade tank. NMOCD rules and guidelines will be followed. The well is located in Rio Arriba County, New Mexico.

Jäcarilla 97 #2 - Unit Letter N, Section 7, Township 26N, Range 3W

If there are any questions or concerns, please contact me at 505-324-4131.

Sinacerely,

Ec Hasely

Emergen Resources

Cc: Well File Correspondence

### SENDER: COMPLETE THIS SECTION

Sr. Environmental Engineer Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.

Print your name and address on the reverse so that we can return the card to you.

Attach this card to the back of the malipiece, or on the front if space permits.

Hubson Samboua

COMPLETE THIS SECTION ON DELIVERY

A. Signature

U.S. Postal Service

Postage Certified Fee

Return Receipt Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

Street, Apt No : or PO Box No.

City, State, ZIP+4

Total Postage & Fees

PS Form 3800, August 2006

5801

2820

Certified M

CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postmark

Here

□ Agent ☐ Addressee

B. Received by ( Printed Name) Irana C. Date of Delivery 7/

D. Is delivery address different from item 1? If YES, enter delivery address below:

☐ Yes ☐ No

Service Type

Certified Mail Registered

☐ Express Mail ☐ Return Receipt for Mercha

Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee)

2. Article Number (Transfer from service label)

2820 0000 5801 \$7944 7009

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

Energen Resources Corporation, an Ene

### **Ed Hasely**

From:

Ed Hasely

Sent:

Monday, April 16, 2012 11 01 AM

To:

'Kelly, Jonathan, EMNRD'

Cc: Subject: 'hsandoval\_99@yahoo.com', Billy Stalcup BGT Closure Notification \_ Jicarilla 97 #2

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

Jica rilla 97 #2 - Unit Letter N, Section &, Township 26N, Range 3W

### **Ed Hasely**

**Energen Resources Corporation** 

Sr Environmental Engineer ed hasely@energen com
Office (505) 324-4131
Cell (505) 330-3584

Jicar 1/2 97 #2



May 31, 2012

New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410 Attn: Brandon Powell

Jicarilla 97 #2 Re:

Below Grade Tank Closure

Dear Mr. Powell:

Enclosed is the final C-144 Form for the Below-Grade Tank closure on the subject well location.

If there are any questions or concerns with this submittal, please contact me at 505-324-4131.

Sincerely,

Ed Hasely

Sr. Environmental Engineer

Energen Resources

Attachments: Final C-144

Closure Report

Proof of Closure Notice

Photo

Jicarilla EPO Cc:

> Jicarilla O&G **HSE File** Facility File Correspondence

District 1 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

Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance

Form C-141

with Rule 116 on back side of form

Attached

#### Release Notification and Corrective Action **OPERATOR** Initial 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 97 #2 (30-039-06531) Facility Type: Oil/Gas Well Site Surface Owner: Jicarilla Mineral Owner: Jicarilla Lease No. Jicarilla 97 LOCATION OF RELEASE Township Unit Letter Section Feet from the North/South Line Range Feet from the East/West Line County Ν 7 26N 3W 990 South 1450 West Rio Arriba Latitude 36.47954 Longitude -107.1717 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: Date and Hour of Discovery: Unknown 5/4/12 Was Immediate Notice Given? If YES, To Whom? NMOCD – Brandon Powell, Jicarilla EPO – Hobson ☐ Yes ☐ Not Required Sandoval By Whom? Ed Hasely Date and Hour: 5/4/12, 1 15 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. NA ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.\* NA ROVERSING OIL COMS. OTH. DIST. S 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 769 ppm. According to the Pit Rule, any result over 100 ppm is an indication of a release Describe Area Affected and Cleanup Action Taken.\* The sample tested 52 8 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 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 OIL CONSERVATION DIVISION Signature Approved by District Supervisor Printed Name Ed Hasely Sr Environmental Engineer Approval Date Expiration Date Title E-mail Address ed hasely@energen com

Conditions of Approval.

Date 5/31/12

Phone 505-324-4131 / 505-330-3584(cell)

Attach Additional Sheets If Necessary