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

10152	
10/3	

### <u>Pit, Closed-Loop System, Below-Grade Tank, or</u> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

	☐ Modific	e of a pit, close cation to an ex plan only sub	ed-loop system, be sisting permit omitted for an exist	low-grad	e tank, or p	oposed alternative proposed alternative n-permitted pit, clo	e method
Instructions: Plea	se submit one applicati	ion (Form C-14	44) per individual pi	it, closed-la	oop system, i	below-grade tank or	r alternative request
lease be advised that approva	al of this request does not	relieve theoper	ator of liability shoul	d operation	s result in po	llution of surface wat	<u>-</u>
Operator Energen Reso							
Address 2010 Afton P	lace, Farmington, New	Mexico 87401					
Facility or well name	Jicarilla 98 10						_
API Number300392	5306		OCD Permit Numbe	r			<del></del>
U/L or Qtr/QtrM	Section 17	Township2	<u>26N</u> Range	03 W	_County _	Rio Arriba	
Center of Proposed Design	Latitude <u>36 4777</u>	'6	Longitude107	17353		NAD □1927 🛭	1983
Surface Owner   Federa	I ☐ State ☐ Private ⊠	Trıbal Trust o	r Indian Allotment				
Pit: Subsection F or C Temporary Drilling Permanent Emerger Lined Unlined L String-Reinforced Liner Seams Welded  Closed-loop System: Type of Operation P& intent) Drying Pad Above Lined Unlined Liner Seams Welded  Liner Seams Welded	Workover    Cavitation   Factory   Other     Subsection H of 19 15   A   Drilling a new wee Ground Steel Tanks     Cavitation   Factory   Other     Cavitation   Other     Cavita	P&Amil  17 11 NMAC  rell	ver or Drilling (Applins	ne	bbl D	out out of the control of the contro	x Wx Dal of a permit or notice of
W Below-grade tank: So Volume  Tank Construction materia  ☐ Secondary containmer  ☐ Visible sidewalls and Liner type Thickness	bbl Type of fl l it with leak detection ☐ liner 🕺 Visible sidewa	luid Visible sidev Ils only □ Ot	walls, liner, 6-inch li	ft and auto	matic overfl		
5							

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

Alternative Method:

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 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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval.
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
<ul> <li>Within an unstable area</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources, USGS, NM Geological Society, Topographic map</li> </ul>	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

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 15.17.11 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 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. (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   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 X 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 On-site Trench 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.		
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 operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	e requirements of Subsection H of 19 15 17 13 NMA n I of 19 15 17 13 NMAC	C
Siting Criteria (regarding on-site closure methods only): 19 15 17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may requiconsidered an exception which must be submitted to the Santa Fe Environment demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	ire administrative approval from the appropriate dist al Bureau office for consideration of approval. Just	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - IWATERS database search, USGS, Da	ta obtained from nearby wells	Yes No
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, Da	ta 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, Da	ta obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other stake (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 churc - Visual inspection (certification) of the proposed site, Aerial photo, Satellii		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that leavatering 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 was adopted pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality, Written appro		Yes No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visu	ial 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-Minin	g and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area</li> <li>Engineering measures incorporated into the design, NM Bureau of Geolog Society, Topographic map</li> </ul>	gy & 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 by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19 I Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	quirements of 19 15.17.10 NMAC of Subsection F of 19 15 17 13 NMAC appropriate requirements of 19 15 17 11 NMAC pad) - based upon the appropriate requirements of 19 15 17 13 NMAC quirements of Subsection F of 19 15 17 13 NMAC of Subsection F of 19 15 17.13 NMAC drill cuttings or in case on-site closure standards cann of 19 15 17 13 NMAC of 10 19.15 17 13 NMAC	15 17 11 NMAC

Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurately.	urate and complete to	the best of my knowledge and belief
Name (Print) T	itle	<del></del>
Signature:	Date	
e-mail address Telephone		
OCD Approval: Permit Application (including closure plan) 🔀 Closure	P <del>lan (only)</del> OC	D Conditions (see attachment)
OCD Representative Signature:	<u>у</u>	Approval Date: <u>6/04/2012</u>
Deputy Oil & Gas Inspector,  Title:District #3	OCD Permit Nu	mber:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the	to implementing an the completion of th	y closure activities and submitting the closure report. e closure activities. Please do not complete this
	Closure Co	mpletion Date: 4/27/12
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alteri	native Closure Metho	d  Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, dr two facilities were utilized.		
Disposal Facility Name	_ Disposal Facility	Permit Number
Disposal Facility Name	_ Disposal Facility	Permit Number
Were the closed-loop system operations and associated activities performed on € ☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No	or in areas that will no	of be used for future service and operations?
Required for impacted areas which will not be used for future service and operation.  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation.  Re-vegetation Application Rates and Seeding Technique	itions	
24		. D
Closure Report Attachment Checklist: Instructions: Each of the following 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)		ed to the closure report. Please indicate, by a check
	itude	NAD 1927 1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure required.	e report is true, accura	ate and complete to the best of my knowledge and as specified in the approved closure plan
Name (Print) Ed Hasely	Title Sr	Environmental Engineer
Signature. Waself	Date	5/31/12
e-mail address ed hasely@energen.com	Telephone _	(505) 324-4131

### **BELOW-GRADE TANK CLOSURE REPORT**

### ENERGEN RESOURCES Jicarilla 98 #10

### **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 below-grade 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	.0512
TPH (418.1)	100	11.8
Chlorides	250	280 (exceedance)

(7) IF the soil analyses show that the soils meet the concentrations specified in (6) above, 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 <u>and</u> 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 Resources	Project #:	03022-0001
Sample ID:	Jicarilla 98 #10	Date Reported:	04-10-12
Laboratory Number:	61612	Date Sampled:	04-05-12
Chain of Custody:	13689	Date Received:	04-05-12
Sample Matrix:	Soil	Date Analyzed:	04-09-12
Preservative:	Cool	Date Extracted:	04-05-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Dilution:	50
	Det.
Concentration	Limit
(ug/Kg)	(ug/Kg)
ND	10.0
19.5	10.0
ND	10.0
18.0	10.0
13.8	10.0
51.2	
	Concentration (ug/Kg) ND 19.5 ND 18.0

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	111 %
	1,4-difluorobenzene	111 %
	Bromochlorobenzene	103 %

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 Closures** 

Analyst

RAVION

5796 US Highway 64, Farmington, NM 87401

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

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

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



Client:	Energen Resources	Project #:	03022-0001
Sample ID:	Jicarilla 98 #10	Date Reported:	04-11-12
Laborationy Number:	61612	Date Sampled:	04-05-12
Chain <b>o</b> ∉ Custody No:	13689	Date Received:	04-05-12
Sample .Matrix:	Soil	Date Extracted:	04-09-12
Preservative:	Cool	Date Analyzed:	04-09-12
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/ <b>k</b> c <b>g</b> )	(mg/kg)

Total Petroleum Hydrocarbons

11.8

7.4

ND = Parameter not detected at the stated detection limit.

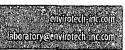
References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

**BGT Closures** 





### Chloride

Client: Sample: **{D**: Energen Resources

Project #:

03022-0001

Sample: ID:

Jicarilla 98 #10 61612 Date Reported: Date Sampled:

04-09-12

Sample Matrix:

Soil

Date Received:

04-05-12 04-05-12

Preservative:

Cool

Date Analyzed:

04-06-12

Condition:

Intact

Chain of Custody:

13689

Parameter

Concentration (mg/Kg)

Total Chloride

280

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 Closures** 

Analyst

Davila

5796 US Highwag-64, Farmington, NM 87401

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

Three Springs • 655 Mercado Street, Suite 115, Durango, CO 81301

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

envirotedikingcom abbratory@envirotechkingcom



March 28, 2012

Jacarilla Apache Nation
Environmental Protection Office
P.O. Box 507
Dulce, NM 87528

Attn: Mr. Hobson Sandoval, Environmental Specialist

Re: Below Grade Tank Closures Multiple Wells

Dear Sirs:

Emergen Resources plans to close the below grade tanks located on the well locations listed below. 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 tanks. NMOCD rules and guidelines will be followed. The weells are all located in Rio Arriba County, New Mexico.

Jicarilla 98 #2A - Unit Letter O, Section 19, Township 26N, Range 3W Jicarilla 98 #10 - Unit Letter M, Section 17, Township 26N, Range 3W Jicarilla 98 #12 - Unit Letter J, Section 18, Township 26N, Range 3W

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

Simcerely, COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature Complete items 1, 2, and 3. Also complete □ Agent item 4 if Restricted Delivery is desired. Ed Hasely □ Addressee Print your name and address on the reverse Sr. Environmental Engineer so that we can return the card to you. C. Date of Delivery Received by (Printed Name) ■ Attach this card to the back of the mailpiece, under Notsinner Emergen Resources or on the front if space permits. D. Is delivery address different from item 1? ☐ Yes □ No 1. Article Addressed to: If YES, enter delivery address below: Sicarilla Apacha Nat EPO 🔅 Cc: Well Files Post Office Box 507 Correspondence DW NM 87528 Service Type ☐ Express Mail Certifled Mail Atln: Hobson Sandoval ☐ Return Receipt for Merchandise ☐ Registered ☐ Insured Mall ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number

7009 2820 0000 5801 7920

U.S. Postal Service...

Certified Fee

Return Receipt Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

Total Postage & Fees

PS Form 3800. August 2006

Street, Apt. No.

City. State. ZIP+4

7

5801

2820

7009

Ce<sub>1</sub>

CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

**Postmark** 

Here

### **Ed Hasely**

From:

Ed Hasely

Sent:

Wednesday, March 28, 2012 7 36 AM

To:

'Kelly, Jonathan, EMNRD'

Cc:

'Hobson Sandoval'

Subject:

BGT Closure Notifications - Jicarilla

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

Jica rilla 98 #2A - Unit Letter O, Section 19, Township 26N, Range 3W

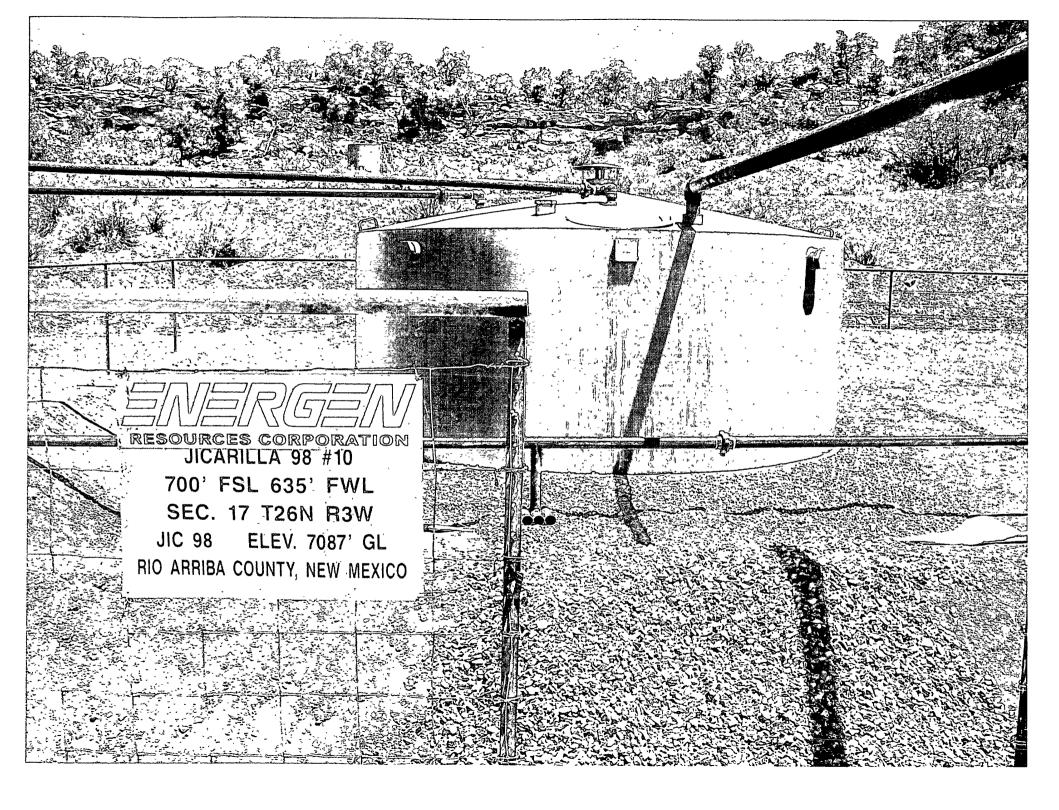
Jicarilla 98 #10 - Unit Letter M, Section 17, Township 26N, Range 3W

Jicarilla 98 #12 - Unit Letter J, Section 18, Township 26N, Range 3W

### **Ed Hasely**

### **Energen Resources Corporation**

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





May 31, 2012

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

Jicarilla 98 #10 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 Documentation

HSE File Cc:

Jicarilla Oil and Gas

Jicarilla EPO Facility File Correspondence 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

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

### Release Notification and Corrective Action

<b>OPERATOR</b>			<b>t</b>	Initial I	Report 🛛 Final Report
Name of Company: Energen Resources, Inc.		Contact: Ed Hasely			
Address: 2010 Afton Place, Farmington, NM 87401		<b>Telephone No:</b> 505-324-4131			
Facility Name: Jicarilla 98 #10 (30-039-25306)	F	Facility Type: Oil/Gas Well Site			
Surface Owner: Jicarilla Mineral Ow	vner:	: Jicarilla Lease No. Jicarilla 98			
LOCATION OF RELEASE					
Unit Letter Section Township Range Feet from the	Nor	th/South Line	Feet from the	East/West Lin	ne County
M 17 26N 3W 700	Sou	th	635	West	Rio Arriba
<b>Latitude</b> 36.47776 <b>Longitude</b> -107 17353					
NATURE OF RELEASE  Type of Release: Produced Fluids  Volume of Release: Unknown  Volume Recovered: 0 bbls					
Source of Release: Production Pit Tank		Volume of Release: Unknown  Date and Hour of Occurrence:		Date and Hour of Discovery:	
Source of Release, Hoddenoil He Lank	Unknown		4/13/12		
Was Immediate Notice Given?  ☐ Yes No Not Required Sandoval  ☐ Not Required Sandoval  ☐ Not Required Sandoval					l, Jicarılla EPO – Hobson
By Whom? Ed Hasely	<b>Date and Hour:</b> 4/13/12, 4 30 pm				
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA				
If a Watercourse was Impacted, Describe Fully.* NA  COUNTY OF CONS. DIV.  OBT. 3					
Describe Cause of Problem and Remedial Action Taken.*					
Sampling underneath the tank during the below-grade tank closure showed Chloride results of 280 ppm. According to the Pit Rule, any result over 250 ppm is an indication of a release					
Describe Area Affected and Cleanup Action Taken.*					
Groundwater is estimated over 100 feet and the well is not near surface water, 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 endanged 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					
1 111 1		OIL CONSERVATION DIVISION			
Signature 2 Vas					
Printed Name Ed Hasely	A	Approved by District Supervisor			
Title. Sr Environmental Engineer	A	Approval Date Expirate		Expiration Dat	е
E-mail Address ed hasely@cnergen com		Conditions of Approval		1	Attached
Date 5/31/12 Phone 505-324-4131 / 505-330-3584(cell	1)				
Attach Additional Sheets If Necessary					