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.

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

Proposed Alternative Method Permit or Closure Plan Application

Santa Fe, NM 87505

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 Energen Resources OGRID #. 162928
Address 2010 Afton Place, Farmington, New Mexico 87401
Facility or well name
API Number 3003922119 OCD Permit Number
U/L or Qtr/Qtr E Section 30 Township 25N Range 05W County Rio Arriba
Center of Proposed Design Latitude 36 37331 Longitude -107 40543 NAD □1927 ☑ 1983
Surface Owner Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19 15 17 11 NMAC Temporary Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams Welded Factory Other Volume bbl Dimensions 21 OIL CONWOIN DIGT 2 D 3
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 Thicknessmil LLDPE HDPE PVC Other
Liner Seams
4
X Below-grade tank: Subsection I of 19 15 17 11 NMAC
Volumebbl Type of fluidProduced Water
Tank Construction material
Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off ☐ Visible sidewalls and liner ※ Visible sidewalls only ☐ Other
Liner type Thicknessmil HDPE PVC Other
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, it	hospital, .
institution or church) ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate Please specify	
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)	
8	
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 appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	oriate district oproval.
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	☐ 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 17.12 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:
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 19.15.17.10 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 Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Climatological Factors Assessment - based upon the appropriate requirements of 19.15.17.13 NMAC Monitoring and Inspection 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
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.	Disposal Facility Permit Number	
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) No	occur on or in areas that will not be used for future serv	vice and operations?
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriation Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	te requirements of Subsection H of 19 15.17 13 NMA(n I of 19 15 17 13 NMAC	C
17 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 required 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. Justi	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 ☐ 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, 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 ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other silake (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, Satelli		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that le 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 wa adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approximately.		☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visi	ual 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-Minir	ng and Mineral Division	☐ Yes ☐ No
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geolo Society, Topographic map	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 a 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 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	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 a H of 19 15 17 13 NMAC	15 17 11 NMAC

Operator Application Certification: I hereby certify that the information submitted with this application	on is true, accurate and complete to the best of my knowledge and belief
Name (Print)	Title
Signature	Date·
e-mail address Tel	lephone
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Title: Compliance	
	ure plan prior to implementing any closure activities and submitting the closure report. hin 60 days of the completion of the closure activities. Please do not complete this
	☐ Closure Completion Date: 8/24/10
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain	d Alternative Closure Method Waste Removal (Closed-loop systems only)
	d-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than Disposal Facility Permit Number
Disposal Facility Name	performed on or in areas that will not be used for future service and operations?
Yes (If yes, please demonstrate compliance to the items below	ow) 🗌 No
Required for impacted areas which will not be used for future server Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	nce and operations
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 o	the following items must be attached to the closure report. Please indicate, by a check
 □ 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
	th this closure report is true, accurate and complete to the best of my knowledge and closure requirements and conditions specified in the approved closure plan
Name (Print) Ed Hasely	Title Sr Environmental Engineer
Signature SI Wash	Date 8/27/10
e-mail address <u>ed hasely@energen com</u>	Telephone:(505) 324-4131

BELOW-GRADE TANK CLOSURE REPORT

ENERGEN RESOURCES Jicarilla 67 #20

<u>CLOSURE STEPS:</u> (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.

Was not completed. The Jicarilla Environmental Protection Office was notified, but not the NMOCD. The NMOCD will be notified on future closures.

- (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	ND
TPH (418.1)	100	13.4
Chlorides	250	70

(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

Excavation was backfilled w/ non-waste containing, earthen material in a manner that will prevent ponding and erosion, including one foot on top soil.

(8) 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.

Not applicable.

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.



Chloride

Client: Energen Project #: 03022-0168 Sample ID. Jic 67 #20 Date Reported: 08-13-10 Lab ID# 55518 Date Sampled: 08-11-10 Sample Matrix: Soil Date Received: 08-11-10 Preservative: Cool Date Analyzed: 08-13-10 Condition: Intact Chain of Custody: 10183

Parameter Concentration (mg/Kg)

Total Chloride 70

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 67 BGTs

Analyst Monpool

KeAteM



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client.	Energen	Project #:	03022-0168
Sample ID:	Jic 67 #20	Date Reported:	08-13-10
Laboratory Number.	55518	Date Sampled:	08-11-10
Chain of Custody No:	10183	Date Received:	08-11-10
Sample Matrix:	Soil	Date Extracted:	08-13-10
Preservative:	Cool	Date Analyzed:	08-13-10
Condition:	Intact	Analysis Needed:	TPH-418.1

_	. — -	<u> </u>	 		 Det.
			Concentr	ation	Limit
Para	meter		 (mg/kg	<u>)</u>	 (mg/kg)

Total Petroleum Hydrocarbons

13.4

5.0

ND = Parameter not detected at the stated detection limit.

References:

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

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla 67 BGTs

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0168
Sample ID [,]	Jic 67 #20	Date Reported:	08 -1 6-10
Laboratory Number:	55518	Date Sampled.	08-11-10
Chain of Custody.	10183	Date Received:	08-11-10
Sample Matrix:	Soil	Date Analyzed:	08-13-10
Preservative.	Cool	Date Extracted:	08-12-10
Condition	Intact	Analysis Requested:	BTEX

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 BTFX	ND		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries	Parameter	Percent Re	ecovery
	Fluorobenzene	102	%
	1,4-difluorobenzene	98.5	%
	Bromochlorobenzene	100	%

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, References¹

December 1996.

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

USEPA, December 1996.

Comments: Jicarilla 67 BGTs



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-0168
Sample ID:	Jic 67 #20	Date Reported:	08-13-10
Laboratory Number:	55518	Date Sampled:	08-11-10
Chain of Custody No:	10183	Date Received:	08-11-10
Sample Matrix:	Soil	Date Extracted:	08-12-10
Preservative·	Cool	Date Analyzed:	08-13-10
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996

Comments: Jicarilla 67 BGTs

Analyst

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

Ed Hasely

From:

Ed Hasely

Sent: To: Monday, July 26, 2010 3:31 PM 'Powell, Brandon, EMNRD'

Subject:

BGT Notification - Five Jicarilla Wells

Brandon – this is to notify you that Energen plans to close the below grade tanks that are located on the following locations:

Jicarilla 67 #19 - Unit Letter L, Section 30, Township 25N, Range 5W

Jicarilla 67 #20 - Unit Letter E, Section 30, Township 25N, Range 5W

Jicarilla 99 #10 - Unit Letter D, Section 24, Township 26N, Range 3W

Jicarilla 99 #12 - Unit Letter O, Section 24, Township 26N, Range 3W

Jicarilla 99 #15 - Unit Letter I, Section 23, Township 26N, Range 3W

Let me know if you have any questions.

Ed Hasely

Energen Resources Corporation

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



July 26, 2010

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

Attn: Mr. Dixon Sandoval, Environmental Specialist

Multi

Multiple Wells

Below Grade Tank Closures

Dear Sirs:

Re:

Energen 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 wells are all located in Rio Arriba County, New Mexico.

Jicarilla 67 #19 - Unit Letter L, Section 30, Township 25N, Range 5W	
Jicarilla 67 #20 - Unit Letter E, Section 30, Township 25N, Range 5W	
Jicarilla 99 #10 - Unit Letter D, Section 24, Township 26N, Range 3W	
Jicarilla 99 #12 - Unit Letter O, Section 24, Township 26N, Range 3W	
Jicarilla 99 #15 - Unit Letter I, Section 23, Township 26N, Range 3W	-

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

BGT - 5 die. Wells SENDER: COMPLETE THIS SECTION 🔩 Sincerely, 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 mailpiece, Ed Hasely or on the front if space permits. Sr. Environmental Engineer 1. Article Addressed to: **Energen Resources** Vicarille Apache Nation EPO PO B = 507 Cc: Well Files Dulce, NM 87528 Correspondence

2. Article Number

(Transfer from service

- 11	X J	12	Addressee
- 11	B Received by (Printe	ed Name)	C. Date of Deliver
]	RATHY JU	4mES_	7/28/10
[D. Is delivery address	different from iter	
- {}	If YES, enter delive	ry address belo	w: № No
-			
- 11			
- il			
li.			
	3. Service Type	C Common Ma	sul.
	Certified Mail	Express Ma	
	☐ Registered	☐ Return Rec	eipt for Merchandis
	☐ Insured Mail	☐ C.O.D.	
	4. Restricted Delivery	? (Extra Fee)	☐ Yes
		-	
וחחח	n 5397 UL91	l. ,	

Cenialed Water Begin

Certified Fee

Return Receipt Fee

(Endorsement Required)
Restricted Delivery Fee
(Endorsement Required)

Total Postage & Fees

or PO Box No.

City, State, ZIP+4

5397

7007 1490

Certified Mc

Energen Resources Corporation, an

DC Form 3811 February 2004

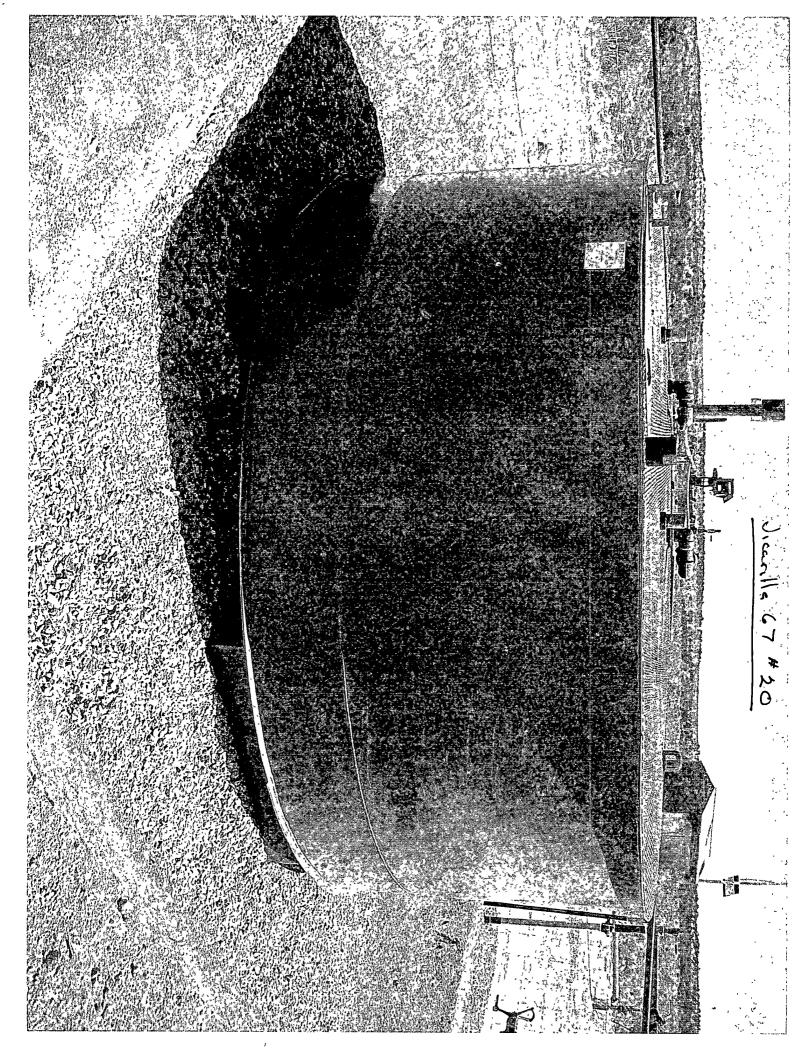
Attn: Dixon Sandoval

7007 1490

Domestic Return Receipt

102595-02-M-154

(A) Agent



<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 District II
1301 W Grand Avenue, Artesia, NM88210
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										
6110					OPERATO	R	☐ Initial Report ⊠ Final Report			
<u> </u>						Ed Hasely				
<u> </u>					Telephone No: :					
Facility Name: Jicarilla 67 #20				Facility Type: (Dil/Gas Well Site	!				
Surface Ow	ner: Trıbal			Mineral Ow	ner:	Tribal		Lease No).	
				LOCAT	ION	N OF RELEA	ASE			
Unit Letter	Section	Township	Range	Feet from the		rth/South Line	Feet from the	East/West L	ine County	
Е	30	25N	5W	1830	No	rth	1170	West	Rio Arriba	
Latitude 36.37331 Longitude -107.40543										
				NATU	RE (OF RELEAS	SE	<u>-</u>		
Type of Relea		EASE				Volume of Rele		Volume Re		
Source of Rel	ease:					Date and Hour	of Occurrence:	Date and H	lour of Discovery:	
Was Immediate Notice Given? Yes No Not Required				If YES, To Whom? Date and Hour:						
By Whom?						Date and Hour		/2	(分 英 分)	
Was a Watercourse Reached?				If YES, Volume Impacting the Watercourse.						
Was a Watercourse Reached? Yes No If a Watercourse was Impacted, Describe Fully.* If a Watercourse was Impacted, Describe Fully.*										
Describe Cau	se of Proble	m and Remed	dial Actio	n Taken.*					-008 800	
THERE WAS NO PROBLEM OR REMEDIAL ACTION TAKEN THIS FORM IS FILLED OUT TO SERVE AS A COVER FOR LAB ANALYSES - ONLY TO SATISFY 19 15 17 13 E(4)										
Describe Area Affected and Cleanup Action Taken.*										
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 DHasel 7					OIL CONSERVATION DIVISION					
					Approved by District Supervisor					
Title	Sr Envir	onmental Engi	ineer			Approval Date		Expiration Date		
E-mail Address ed hasely@energen com						Conditions of App	proval	Attached		

Date 2/15/11 Phone 505-324-4131 / 505-330-3584(cell)

* Attach Additional Sheets If Necessary