District 1 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 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
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 liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of as 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: Marshall COM 1E API Number 3004523842 OCD Permit Number
U/L or Qtr/Qtr P Section 14 Township 27N Range 09W County San Juan
Center of Proposed Design Latitude 36 57046 Longitude -107 75196 NAD ☐1927 ☐ 1983
Surface Owner Federal □ State □ Private □ Tribal Trust or Indian Allotment
2
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 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
The state of the land through the state of t
Liner Seams Welded Factory Other
Liner Seams Welded Factory Other 4.
Liner type Thicknessmil
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, h institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify	nospital,	
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 o 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	
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	
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	

Form C-141 Oil Conservation Division Page 2 of 5

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)
13
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 ₂ 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 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 Steel Tanks or Haul-off Bins Only: (19 15 17 13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.				
•	l Facility Permit Number			
Disposal Facility Name Disposal Facility Permit Number				
Will any of the proposed closed-loop system operations and associated activities occur on o Yes (If yes, please provide the information below) No	r in areas that will not be used for future serv	ice and operations?		
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 I 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; Data obtained	d 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, Data obtained	d 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, Data obtained	d from nearby wells	☐ Yes ☐ No ☐ NA		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	watercourse or lakebed, sinkhole, or playa	Yes No		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existe - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	ence at the time of initial application.	☐ Yes ☐ No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in NM Office of the State Engineer - iWATERS database, Visual inspection (certificate)	existence at the time of initial application	☐ Yes ☐ No		
Within incorporated municipal boundaries or within a defined municipal fresh water well fix adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtain	·	Yes No		
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspec	tion (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 Min	neral Division	☐ Yes ☐ No		
 Within an unstable area Engineering measures incorporated into the design, NM Bureau of Geology & Mine Society; Topographic map 	eral 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 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I 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: 10/04/2011
Title: OM Pliance Office 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: 11/24/10
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 Disposal Facility Permit Number
Disposal Facility Name: Disposal Facility Permit Number
Were the closed-loop system operations and associated activities 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) \sum No
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
24 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
On-site closure Location Latitude Longitude Longitude 1927 1965
25 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) <u>Ed Hasely</u> <u>Title <u>Sr. Environmental Engineer</u> .</u>
Signature 27/4as Date. 12/9/10
e-mail address ed hasely@energen com Telephone (505) 324-4131

BELOW-GRADE TANK CLOSURE REPORT

ENERGEN RESOURCES Marshall Com #1E

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	0.021
TPH (418.1)	100	36.5
Chlorides	250	5

(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) <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>
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.



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen Res.	Project #:	03022-0168
Sample ID:	Marshall Com 1E	Date Reported:	09-08-10
Laboratory Number:	55773	Date Sampled:	09-03-10
Chain of Custody:	10307	Date Received ¹	09-03-10
Sample Matrix:	Soil	Date Analyzed:	09-08-10
Preservative.	Coal	Date Extracted·	09-07-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

		Det.	
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
D	ND	0.0	
Benzene	ND	0.9	
Toluene	ND	1.0	

DCHECHE	110	0.5
Toluene	ND	1.0
Ethylbenzene	1.2	1.0
p,m-Xylene	16.0	1.2
o-Xylene	4.0	0.9

Total BTEX 21	.;	2	•
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ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.2 %
	1,4-difluorobenzene	99.5 %
	Bromochlorobenzene	97.3 %

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

Review



Chloride

Client:	Energen Res	Project #:	03022-0168
Sample ID:	Marshall Com 1E	Date Reported:	09-07-10
Lab ID#:	55773	Date Sampled:	09-03-10
Sample Matrix	Soil	Date Received:	09-03-10
Preservative:	Cool	Date Analyzed:	09-07-10
Condition:	Intact	Chain of Custody	10307

Parameter		Concentration (mg/Kg)	

Total Chloride

5

Reference:

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

Comments:

BGT

Analyst

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Energen Res.	Project #:	03022-0168
Sample ID:	Marshall Com 1E	Date Reported.	09-07-10
Laboratory Number.	55773	Date Sampled:	09-03-10
Chain of Custody No:	10307	Date Received:	09-03-10
Sample Matrix:	Soil	Date Extracted:	09-07-10
Preservative ⁻	Cool	Date Analyzed:	09-07-10
Condition	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons

36.5

13.4

ND = Parameter not detected at the stated detection limit.

References¹

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

and Waste, USEPA Storet No. 4551, 1978.

Comments:

BGT

Analyst

Review

Ed Hasely

From:

Ed Hasely

Sent:

Thursday, August 12, 2010 4 46 PM

To:

'Powell, Brandon, EMNRD'

Subject:

BGT Closure Notifications

Brandon – This email is your notification that Energen plans to close the BGT's on the following locations in the near future. Let me know if you have questions. Thanks.

M ARTIN FEDERAL COM #1 - Unit Letter H, Section 13, Township 29N, Range 11W
TIBBAR FEDERAL #2 - Unit Letter P, Section 13, Township 26N, Range 9W
GARLAND #3 - Unit Letter M, Section 27, Township 29N, Range 11W
MARSHALL COM #1E - Unit Letter P, Section 14, Township 27N, Range 9W
NEWSOM B #11 - Unit Letter P, Section 5, Township 26N, Range 8W

Ed Hasely

Energen Resources Corporation

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



August 12, 2010

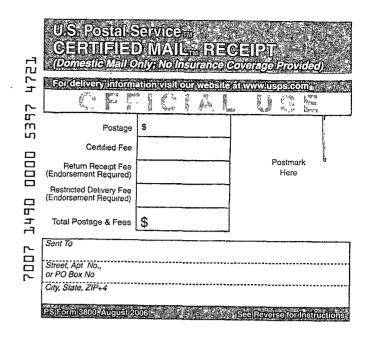
Bureau of Land Management 1235 La Plata Highway Farmington, New Mexico 87401 Attn: Mr. Jim Lavoto

Re:

Below Grade Tank Closures

Multiple Locations

Dear Mr. Lavoto:

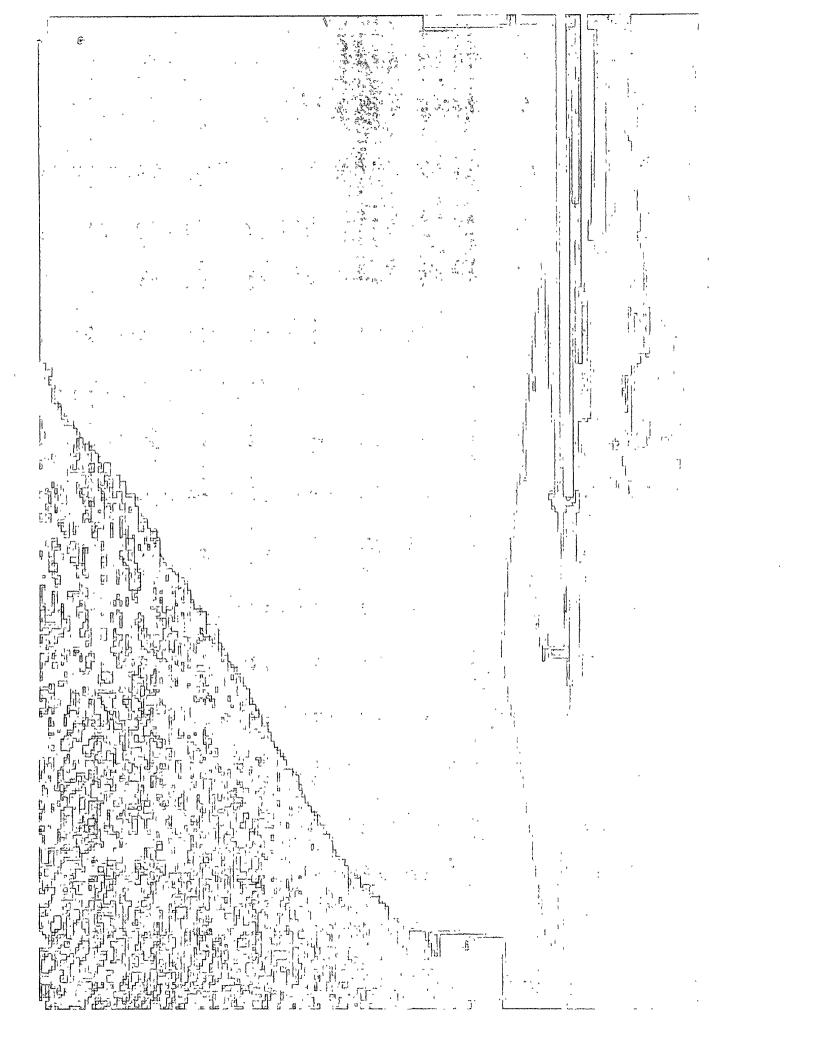


Energen Resources plans to close the below grade tanks located on the well locations listed below. You are on record as the surface owner where these wells are located. New Mexico Oil Conservation Division (NMOCD) rules require notification to the surface owner of our plans to close the below grade tanks. NMOCD rules and guidelines will be followed. The wells are all located in San Juan County, New Mexico.

MARTIN FEDERAL COM #1 - Unit Letter H, Section 13, Township 29N, Range 11W TIBBAR FEDERAL #2 - Unit Letter P, Section 13, Township 26N, Range 9W GARLAND #3 - Unit Letter M, Section 27, Township 29N, Range 11W MARSHALL COM #1E - Unit Letter P, Section 14, Township 27N, Range 9W NEWSOM B #11 - Unit Letter P, Section 5, Township 26N, Range 8W

If there are any questions or concerns, please contact me at 505-330-3584.

Sincere Sincere	ely,	SENDER: COMPLETE THIS Complete items 1, 2, and 3	SECTION.	COMPLETE THIS SECTION ON DELIVERY A. Signature	☐ Agent
	ely vironmental Engineer n Resources	item 4 if Restricted Delivery Print your name and addresso that we can return the content of the back or on the front if space per 1. Article Addressed to.	ss on the reverse and to you. It is a factor of the mailpiece,	B received by Printed Name) D is delivery address different from them 1?	Addressee of Delivery Yes No
Cc:	Well File Correspondence	BLM 125 Laple Famington Jim Li	ta Hwy , NM 87401	3. Service Type **A Certified Mail	Merchandis
				4. Restricted Delivery? (Extra Fee)	□ Yes
		2. Article Number	2007 1490 00	00 5397 4721	



<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 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. Fráncis Dr. Santa Fe, NM 87505

Revised October 10, 2003

Form C-141

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

7384 Release Notification and Corrective Action								
7387			OPERATOI	₹	☐ Initial I	Report 🛛 Final Report		
Name of Company: Energen Resources, Inc.				Contact: E	,			
				Telephone No: 5			1	
Facility Name: Marshall Com #1E				Facility Type: O	il/Gas Well Site			
Surface Owi	ner: Federa	ıl		Mineral Owne	er: Federal		Lease No.	
				LOCATIO	ON OF RELEA	SE		
Unit Letter	Section	Township	Range		North/South Line	Feet from the	East/West Lin	
P	14	27N	9W	960	South	1070	East	San Juan
			Lati	itude 36 57046	Longitude_	-107 75196		
				NATURI	E OF RELEAS	${f E}$		
Type of Relea	se: NO REL	EASE			Volume of Relea	ise:	Volume Reco	overed:
Source of Rel	ease:				Date and Hour	of Occurrence:	Date and Ho	ur of Discovery:
Was Immedia	te Notice G	iven?			If YES, To Who	m?	<u> </u>	
		□ Y	res 🔲 1	No Not Require	d			1301617181920
By Whom?					Date and Hour:			
Was a Watero	course Reac		Yes 🗌 1	No	If YES, Volume Impacting the Watercourse. OF FEB 2000 OF OIL CONS. DIV. DIST. 3 OF OIL CONS. DIV. DIST. 3			
If a Watercou	rea wae Imr						/ <u>E</u>	RECEIVED 8
ii a vvatercou	ise was imp	Jacteu, Desci	ibe runy.				10	FEB 2011 7
							\8	OIL CONS DIV. DIST. 3 A
							10	OIL CONG. DAM
Describe Caus	se of Proble	m and Remed	dial Action	n Taken.*				657 1C0E 670
THERE WAS	NO PROBL	EM OR REM	EDIAL A	CTION TAKEN TH	IIS FORM IS FILLEI	O OUT TO SERV	E AS A COVER	FOR LAB ANALYSES -
ONLY TO SA								
Describe Area	Affected or	nd Cleanup A	etion Tal	van *				
Describe Area	Affecteu ai	na Cleanup A	etion rai	ven.				
			.					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
								t to NMOCD rules and s which may endanger
								the operator of liability
								face 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								
Courter, state, or rocar raws and or regulations				OIL CONSERVATION DIVISION				
Signature	5 //// /					VIDIOIV		
A			Approved by District Supervisor					
Printed Name	Printed Name Ed Hasely							
Title	Sr Enviro	onmental Engi	neer		Approval Date		Expiration Date	
E-mail Address: ed hasely@energen.com Conditions of Approval								
L-man Address ed nasery(a)energen com				Conditions of Appl	Conditions of Approval Attached		Attached	

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

* Attach Additional Sheets If Necessary