District L
1625 N. French Dr., Hobbs, NM 88240
District IL
1301 W. Grand Avenue, Artesia, NM 88210
District IIL
1000 Rio Brazos Road, Aztec, NM 87410
District IV.
1220 S. St. Francis Dr., Santa Fe, NM 87505

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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.

A Pit, Closed-Loop System, Below-Grade Tank, or	
Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Appli	cation_
<ul> <li>Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed al</li> <li>Closure of a pit, closed-loop system, below-grade tank, or proposed a</li> <li>Modification to an existing permit</li> <li>Closure plan only submitted for an existing permitted or non-permitted below-grade tank, or proposed alternative method</li> </ul>	lternative method
Instructions Please submit one application (Form C-144) per individual pit, closed-loop system, below-gra	de tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surfa environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental author	
Operator: Energen Resources Corporation OGRID #: 162928	
Address: 2010 Afton Place, Farmington, NM 87401	
Facility or well name: Jicarilla 67 #21	
API Number: 30-039-3022 OCD Permit Number:	······
U/L or Qtr/QtrE Section19 Township25N Range05W County	
Center of Proposed Design: Latitude <u>36.38575 N</u> Longitude <u>107.40775 W</u>	NAD: 1927 X 1983
Surface Owner: 🔲 Federal 🗋 State 🗋 Private 🕱 Tribal Trust or Indian Allotment	
<sup>2</sup> <b>Pit</b> : Subsection F or G of 19.15.17.11 NMAC	OIL CONS. DIV.
Temporary: X Drilling Vorkover	DIST. 3
Permanent Emergency Cavitation P&A X Lined Unlined Liner type: Thickness20 mil X LLDPE HDPE PVC Other	
String-Reinforced	
Liner Seams: Welded X Factory Other Volume: Volume:	ns: L 155_ x W 85_ x D_10
3	
Closed-loop System: Subsection H of 19 15.17.11 NMAC	prior approval of a permit or notice
□ 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 intent)	prior approval of a permit or notice
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 intent)   Drying Pad Above Ground Steel Tanks   Haul-off Bins	
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 intent)   Drying Pad Above Ground Steel Tanks   Haul-off Bins Other   Lined Unlined   Liner type: Thickness	
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 intent)   Drying Pad Above Ground Steel Tanks   Haul-off Bins Other   Lined Unlined Liner type:   Thickness mil   Liner Seams: Welded   The provided th	
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 intent)   Drying Pad Above Ground Steel Tanks   Haul-off Bins Other   Lined Unlined Liner type: Thickness   Liner Seams: Welded   Factory Other	
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 intent)   Drying Pad Above Ground Steel Tanks   Haul-off Bins Other   Lined Unlined   Liner type: Thickness   Mill LLDPE   HDPE PVC   Other Other	
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 intent)   Drying Pad Above Ground Steel Tanks   Haul-off Bins Other   Lined Unlined Liner type:   Thickness mil   Liner Seams: Welded   Factory Other   4  6 8 8 8 9 <p< td=""><td></td></p<>	
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 intent)   Drying Pad Above Ground Steel Tanks   Haul-off Bins Other   Lined Unlined   Liner type: Thickness   mil LLDPE   HDPE PVC   Other Other	 L-off
Type of Operation:       P&A       Drilling a new well       Workover or Drilling (Applies to activities which require intent)         Drying Pad       Above Ground Steel Tanks       Haul-off Bins       Other         Lined       Unlined       Liner type: Thickness       mil       LLDPE       HDPE       PVC       Other         Liner Seams:       Welded       Factory       Other	 I-off

#### Alternative Method:

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

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6 ** Eencing: 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, sc institution or church)	100l, hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
7 Notting: Subsection F of 10.15.17.11 NMAC (Applies to normalize the ordinary set open to part (applie)	
<b>Netting</b> : 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	
9	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required Please refer to 19.15 17 NMAC for guidance.	
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental E	ureau office f
consideration of approval.	ureau office n
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideratio. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to above-grade tanks associated with a closed-loop system.	ppropriate di of approval.
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office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration         Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to 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         Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or plays lake (measured from the ordinary high-water mark).         -       Topographic map; Visual inspection (certification) of the proposed site         Within 300 feet form a permanent residence, school, hospital, institution, or church in existence at the time of initial application. ( <i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i> )         -       Visual inspection (certification) of the proposed site; Aerial photo; Satellite image         Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. ( <i>Applies to permament pits</i> )         -       Visual inspection (certification) of the proposed site; Aerial photo; Satellite image         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 Off	ppropriate dis of approval. drying pads or U Yes U U Yes U U Yes U U Yes U U Yes U U Yes U U Yes U

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H         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the attached.         Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.         Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection 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 Su and 19.15.17.13 NMAC	<i>he box, that the documents are</i> 15.17.9 NMAC n B of 19.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number	
12         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 attached.            Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Sub            Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 S and 19.15.17.13 NMAC            Previously Approved Design (attach copy of design)           API Number:	section B of 19.15.17.9 19.15.17.10 NMAC
Previously Approved Operating and Maintenance Plan     API Number: (Applies above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	only to closed-loop system that use
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 t 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 the appropriate requirements of 19.15.17.11 NMAC         Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Nuisance or Hazardous Odors, including H2S, 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 19.15.17.13 NMAC and 19.15.17 13 NMAC	NMAC
14         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 Tar         Alternative       Proposed Closure Method:         Proposed Closure Method:       Waste Excavation and Removal         Waste Removal (Closed-loop systems only)       Waste Closure Method (Only for temporary pits and closed-loop systems)         Image:       In-place Burial       On-site Trench Burial         Alternative Closure Method (Exceptions must be submitted to the Santa Fc Environme	
15         Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following 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         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         Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC         Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	.13 NMAC

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<b>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only</b> : (19.15. Instructions · Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings Use attachment facilities are required.	17 13.D NMAC) t if more than two
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 occur on or in areas that will not be used for fut operations?	are service and
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 19.15.17.1 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	3 NMAC
<sup>17.</sup> 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 acceptal provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropri be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of appro and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	te district office or may
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 from nearby wells	Yes X 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; Data 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; Data obtained from nearby wells	X Yes No NA
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or plake (measured from the ordinary high-water mark)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	laya 🗌 Yes 🕱 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🕱 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or sto watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial applic - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordina adopted pursuant to NMSA 1978, Section 3-27-3, as amended</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	nce 🗌 Yes 🕱 No
<ul> <li>Within 500 feet of a wetland</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed s</li> </ul>	te
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 Geologi Society; Topographic map</li> </ul>	cal Yes 🕅 No
Within a 100-year floodplain. - FEMA map	Yes No
<sup>18</sup> On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the clos by a check mark in the box, that the documents are attached.	ure plan Please indicate,
<ul> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15 17.11 NMAC</li> <li>Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15.17.13 NMAC</li> <li>Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards</li> </ul>	2

<u></u>		
<sup>19</sup> <b>Operator Application Certification:</b> I hereby certify that the information submitted with this application is true, accurate	te and complete to t	the best of my knowledge and belief.
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
20         OCD Approval:       Permit Application (including closure plan)         OCD Representative Signature:       Sonatt D. Kelly         Title:       Compliance       Office	osure <del>Plan (only</del> ) Approval I CD Permit NumBe	OCD Conditions (see attachment) Date: 12/13/201( er:
<sup>21.</sup> Closure Report (required within 60 days of closure completion): Subsection K Instructions: Operators are required to obtain an approved closure plan prior to report. The closure report is required to be submitted to the division within 60 da complete this section of the form until an approved closure plan has been obtained	implementing any ays of the completion	o closure activities and submitting the closure on of the closure activities. Please do not
	🗶 Closure Com	pletion Date: <u>11/30/11</u>
<ul> <li>22</li> <li>Closure Method:</li> <li>Waste Excavation and Removal X On-Site Closure Method Alternative</li> <li>If different from approved plan, please explain.</li> </ul>	Closure Method	Waste Removal (Closed-loop systems only)
<sup>23</sup> Closure Report Regarding Waste Removal Closure For Closed-loop Systems 7 Instructions: Please indentify the facility or facilities for where the liquids, drilli than two facilities were utilized. Disposal Facility Name: Dis	ng fluids and drill	cuttings were disposed. Use attachment if more
Disposal Facility Name: Dis	posal Facility Perm	nit Number:
Were the closed-loop system operations and associated activities performed on or n Yes (If yes, please demonstrate compliance to the items below)	n areas that will not	t 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	ns.	
<ul> <li>24</li> <li>Closure Report Attachment_Checklist: Instructions: Each of the following item. mark in the box, that the documents are attached.</li> <li>Proof of Closure Notice (surface owner and division)</li> <li>Proof of Deed Notice (required for on-site closure)</li> <li>Plot Plan (for on-site closures and temporary pits)</li> <li>Confirmation Sampling Analytical Results (if applicable)</li> <li>Waste Material Sampling Analytical Results (required for on-site closure)</li> <li>Disposal Facility Name and Permit Number</li> <li>Soil Backfilling and Cover Installation</li> <li>Re-vegetation Application Rates and Seeding Technique</li> <li>Site Reclamation (Photo Documentation)</li> <li>On-site Closure Location: Latitude <u>36.23093</u> Longitu</li> </ul>		
<ul> <li>25</li> <li>Operator Closure Certification:         <ul> <li>I hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirement</li> </ul> </li> </ul>		
Name (Print): <u>Anna Stotts</u>		ulatory Analyst
Anna Stall	Date:	12/3/11
		· · · · · · · · · · · · · · · · · · ·
e-mail address: astotts@energen.com	Telephone:	505-324-4154

## Well Name: Jicarilla 67 #21

## **Reserve Pit – Final Closure Report**

The pit will be closed with in place burial. If the pit is located on private surface, the surface owner will be notified prior to closure by certified mail and the return receipt will be included in the closure packet. The OCD will be verbally or by other means notified at least 72 hours and not more then one week prior to the pit closing. The following process will be used to close the pit:

### Notification to the Jicarilla Agency is included in this closure report package. Surface owner notification not required.

 At time of closure, all free standing fluids will be removed and reused or disposed with Agua Moss LLC in the Pretty Lady #1 (Disposal API Number # 30-048-30922) or an Energen operated permitted disposal well. The contents will be solidified to a bearing capacity sufficient to support the final cover. This will be accomplished by mixing the contents with soil at a mixing ratio no greater then 3:1 soil to contents.

Fluids were removed and properly disposed in the Aqua Miss Pretty Lady #1. The pit contents were solidified by mixing the contents with soil at a mixing ratio of approximately 3:1.

2) The liner will be cut off at the mud line of the stabilized contents.

#### The liner was cut off at the mud line of the stabilized contents.

3) Sampling will be done by collecting a minimum of a five-point composite sample of the contents after stabilization. The sample will be analyzed for the following components (if the groundwater is less than 100 feet below the pit but greater than 50 feet, testing for chlorides will be done to the lower limit);

Components	Tests Method	Limit (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	.0016
BTEX	EPA SW-846 8021B or 8260B	50	.645
TPH	EPA SW-846 418.1	2500	2256
GRO/DRO	EPA SW-846 8015M	500	16.7
Chlorides	EPA 300.1	<del>500</del> /1000	240

Sampling results are listed in the above table.

4) After demonstrating that the stabilized contents are under the limits listed above, the contents will be covered with compacted non-waste containing earthen material to a minimum of three feet. If stabilized contents exceed a volume that can be covered with three feet of earth and a foot of topsoil the excess contents will be removed and sent to Envirotech (Permit NM-01-0011) or IEI Landfarm (Permit NM-01-0010B). If the stabilized contents do no meet the above stated limits the stabilized contents will all be hauled to Envirotech pursuant to excavation and removal guidelines (19.15.17.13 B1).

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## The contents were covered with three feet of compacted non-waste containing material.

5) After the stabilized contents have been covered, the stockpiled topsoil will be replaced to a minimum depth of one foot. Topsoil cover will be graded to prevent ponding of water and erosion of the cover material. This will be accomplished within six months of rig release.

## The stockpiled topsoil was replaced to a depth of one foot and graded to prevent ponding and erosion.

6) The exact location of the on-site burial will be reported to the Aztec field office on the C-105 form. A deed notice identifying the exact location of the on-site burial will be filed with the county clerk if the pit is on private surface.

# The C-105 form is attached. This pit is located on public surface. Proof of Deed notice not required unless pit is located on private surface (per NMOCD FAQ dated 10/30/09).

7) The final closure report (C-144) will be filed within 60 days of closure completion and include sampling results, plot plan, details on backfilling, covering and inspections during the life of the pit.

## This closure report includes sampling results, plot plan, closure details, inspections, and photos.

8) If the pit is located on federal or tribal surface, seeding will be deferred to BLM requirements per the BLM / OCD MOU. Otherwise, the disturbed area will be seeded or planted the first growing season after closing the pit. Seed will be drilled on the contour whenever practical or by other divisionapproved methods. The goal is to obtain vegetative cover that equals 70% of the native 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. Cover will be maintained through two successive growing seasons. During the two growing seasons that prove viability there shall be no artificial irrigation of the vegetation. Seeding or planting will continue until the required cover is reached. If conditions are not favorable to establishment of vegetation due to periods of drought or similar problems then the Aztec office of the OCD will be notified. The Aztec office of the OCD will also be notified when the disturbed ground successfully achieves re-vegetation.

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## The pit is located on Federal or Tribal surface, seeding is deferred to BLM requirements per the BLM / OCD MOU.

9) Until the abandonment of the wells on the pad where the pit is located, a steel marker no less then four inches in diameter will be cemented in a hole three feet deep in the center of the onsite burial. The top of this marker will be flush with the ground. Once all wells on the pad are abandoned, a four foot tall riser will be welded on top of the marker with; operator name, lease number, well name and number, unit number, section, township and range, and a designation that it is an onsite burial location.

The marker was installed in the center of the closed pit. The marker is set flush to the ground until final abandonment. At the time of abandonment, a four foot riser will be installed and marked as follows: Energen Resources – Lease # Jicarilla Contract 67 – Jicarilla 67 #21 – Unit E – Sec. 19, T25N, R05W – Pit Burial Site.

Five Dist 162: Dist	mit to Approp Copies net1 5 N French D net11	9r , Hobbs, N	IM 88	240	Е	St Inergy, Min		te of New erals and N			sourc	ces	Form C-10 July 17, 20 1. WELL API NO.					
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	WELL	COMPL	ETI	ON OR RI	ECO	MPLETION	F	REPORT AI	ND L	OG						65) <sup>(</sup> 9		
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BH		<u> </u>		19		25 N	╀	05W	+					+		+		
13 Date Spudded     14 Date T D Reached     15 Date Rig Released     16 Date Completed (Ready to Produce)     17. Elevations (DF & RKB, RT, GR, etc.)																		
18	Total Meas	sured Dept	h of W	Vell		19 Plug Bac	k I	Measured Dept	h	20. Wa	is Dire	ctional S	urvey Mad	e	21 Type	Elec	tric and	Other Logs R
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Flo Pre	w Tubing ss		Casi	ing Pressure		Calculated 24- Hour Rate		Oil - Bbl		Gas - M	CF	Wa	ter - Bbl		Oil Grav	vity -	- API - <i>(</i> C	'orr.)
29.	Disposition	n of Gas <i>(</i>	Sold, I	used for fuel,	vented	l, etc.)						<b></b>	30	). Te	st Witnessec	iВy		
31.	List Attach	nments											•					
32	If a tempo	rary pit wa	s used	at the well, a	ttach a	a plat with the lo	oca	ation of the tem	porary	pit	_							
33.	If an on-su	te burial w	as use	d at the well,	report	the exact location	on	of the on-site t Latitude		6.2309	3	Long	itude ·	-10	7.29262	N	AD:	1927 <b>X</b> 198
Sig	I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Signature And Complete to the best of my knowledge and belief																	
E-1	mail addre	SS	ä	astotts@e	nerg	en.com	~	,,				111				_	Date	

State of New Mexico Form C-102 DISTRICT 1625 N. French Dr., Hobbs, N.M. 88240 Energy, Minerals & Natural Resources Departm Revised July 10, 2010 DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210 FER () Submit one copy to appropriate OIL CONSERVATION DIVISION District Office CUNSERVATION - Companyion Field () PL 1220 South St. Francis Dr. Companyion Field () PL 20 South St. Francis Dr. Companyion Field () PL 20 South St. Francis Dr. Companyion Field () PL 20 South St. Francis Dr. Companyion Field () PL 20 South St. Francis Dr. Companyion Field () PL 20 South St. Francis Dr. Companyion Field () PL 20 South St. Francis Dr. Companyion Field () PL DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>1</sup> API Number <sup>a</sup>Pool Code <sup>3</sup>Pool Name 71599 BASIN DAKOTA 30-039-31022 • Well Number \* Property Code <sup>8</sup>Property Name 21 JICARILLA 67 21935 \*Operator Name OCRID No Elevation ENERGEN RESOURCES CORPORATION 6623' 162928 <sup>10</sup> Surface Location North/South line UL or lot no. Lot Idn Feet from the Feet from the East/West line Section Township Range County 2575 NORTH 701' WEST RIO ARRIBA ε 19 25N 5W 2 "Bottom Hole Location If Different From Surface North/South line | Feet from the Feet from the East/West line UL or lot no. Section Township Lot Idn Range County 15 Joint or Infill <sup>14</sup> Consolidation Code "Order No. Dedicated Acres W/2 - 319.24 ACRES NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 16 17 OPERATOR CERTIFICATION ND 3-1/4" BC BLM 1964 I hereby certify that the information contained herein is N 89'56'10" W 5276.71' (M) Irue and complete to the best of my knowledge and which and that this organization either owns a working interest or unleased mineral interest in the land including the proposed balant hole location or has a right to drill this. 5276.70' (R) 2-PNT WEST proposed content note operiod of note a right to drait this world at this location presents to a contract with an some of such a nanoral or working interest, or to a voluntary voluntary posing agreement or a computery posing order heretofore entred by the interior. E æ 6 1 44 BEARINGS 2622.4 2621. 2-2-1 Date -Signature Andrew Soto 575 ц, Printed Name 3 BASIS 39, ₹ 2 0'17' E-mail Address ŝ 18 SURVEYOR CERTIFICATION ġ z I hereby certify that the well location shown on this 7 plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my being FND 3-1/4" BC BLN 1965 WELL FLAG LAT. 36.38575" N LONG. 107.40775" W DATUM (NAD 1983) SEPTEMBER 28. 2010 Date of Survey 3 Signature and Seal of Professional Surveyor-R ألاتهم D ≥ ≥ **IEGISTER** δ ശ S £ £ 4 PRESSIONAL VA DAVID RUSSEI Certificate Number 10201

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### Anna Stotts

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From:	Ed Hasely
Sent:	Tuesday, July 12, 2011 7:14 AM
То:	Anna Stotts
Subject:	FW: Reserve Pit - Jicarilla 67 #21
Attachments:	Energen-Jicarilla 67 #21.pdf

FYI - Documentation that Michael contacted the Jicarilla concerning the upcoming closure of this reserve pit.

### Ed Hasely Energen Resources Corporation

From: Michael Dean
Sent: Monday, July 11, 2011 7:58 AM
To: 'bbvac@windstream.net'; 'brycehammond@jicarillaoga.com'
Cc: Ed Hasely
Subject: FW: Reserve Pit - Jicarilla 67 #21

We will get set up and cover this pit as soon as possible included is copies of the samples taken from the pit. *Michael L. Dean Energen Resources Construction Foreman* (505)-330-0342

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## **Proof of Closure Notice**

The OCD notification on this closure was inadvertently missed by the contractor. Energen Resources notified the contractor that the notification is mandatory and must be made.



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IN REPLY REFER TO: Branch of Real Property

## United States Department of the Interior

**BUREAU OF INDIAN AFFAIRS Jicarilla Agency** P.O. Box 167 Dulce, New Mexico 87528



AUG 0 9 2011

Mr. David M. Poage **Energen Resources Corporation** 2010 Afton Place Farmington, New Mexico 87401

Dear Mr. Poage:

This is in reference to your request for permission to perform work on the following location that is on TRIBAL SURFACE:

#### Jicarilla 67 #21:

Section 19, Township 25 North, Range 5 West, County of Rio Arriba, State of New Mexico

#### Scope of Work:

Perform/complete dirt reclamation of the, Jicarilla 67 #21 well pad location.

The Bureau of Indian Affairs, Jicarilla Agency, hereby grants, Energen Resources Corporation and Triple F Construction & Field Service, LLC, permission to perform work on the above mentioned location.

Bureau of Indian Affairs, hereby request an Affidavit of Completion and final report, when the project is completed.

If you have any questions, please contact Kurt Sandoval, Petroleum Engineer Technician, at (575) 759-3936.

Sincerely.

uplas Acadeeray

Supérintendent

Ms. Deidra Florez, Triple F Construction & Field Service, LLC CC:



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#### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen Res.		Project #:		03022-0168
Sample ID:	Reserve Pit		Date Reported:		07-06-11
Laboratory Number:	58751		Date Sampled:		06-29 <b>-1</b> 1
Chain of Custody:	12072		Date Received:		06-30-11
Sample Matrix:	Sludge		Date Analyzed:		07-05-11
Preservative:	Cool		Date Extracted:		07-01-11
Condition:	Intact		Analysis Requested:		BTEX
			Dilution:		10
				Det.	
		Concentration		Limit	
Parameter		(ug/Kg)		(ug/Kg)	
			- -		
Benzene		1.6		0.9	
Toluene		15.9		1.0	
Ethylbenzene		7.8		1.0	
p,m-Xylene		28.4		1.2	
o-Xylene		10.8		. <b>0.9</b>	
Total BTEX					

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	104 %
	Bromochlorobenzene	108 %

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

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

Comments: Jicarilla 67 #21

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Analyst

Review



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## EPA METHOD 418.1 **TOTAL PETROLEUM HYDROCARBONS**

Condition:	Intact	Analysis Needed:	TPH-418.1
Preservative:	Cool	Date Analyzed:	07/01/11
Sample Matrix:	Sludge	Date Extracted:	07/01/11
Chain of Custody No:	12072	Date Received:	06/30/11
Laboratory Number:	58751	Date Sampled:	06/29/11
Sample ID:	Reserve Pit	Date Reported:	07/01/11
Client:	Energen Res.	Project #:	03022-0168

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

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 #21

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Analyst

Review

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



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

Client:	Energen Res.	Project #:	03022-0168
Sample ID:	Reserve Pit	Date Reported:	07-06-11
Laboratory Number:	58751	Sampled:	06-29-11
Chain of Custody No:	12072	Date Received:	06-30-11
Sample Matrix:	Sludge	Date Extracted:	07-01-11
Sample Matrix:	Sludge	Date Extracted:	07-01-11
Preservative:	Cool	Date Analyzed:	07-05-11
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)	16.7	0.1
Total Petroleum Hydrocarbons	16.7	

ND - Parameter not detected at the stated detection limit.

References:

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

Comments:

Jicarilla 67 #21

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Analyst

Review

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



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### Chloride

Client:	Energen	Project #:	03022-0168
Sample ID:	Reserve Pit	Date Reported:	07/06/11
Lab ID#:	58751	Date Sampled:	06/29/11
Sample Matrix:	Sludge	Date Received:	06/30/11
Preservative:	Cool	Date Analyzed:	07/05/11
Condition:	Intact	Chain of Custody:	12072

#### Parameter

### Concentration (mg/Kg)

**Total Chloride** 

240

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 #21

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Analyst

Review

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



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Pit Inspection Log Sheet

(daily while rig is on-site, then weakly as long as liquids remain in the nit)

	ten weekiy as long as liquids ternain in the pity	
Well Name: TICARILLA 67#2	API: <u>30,7039-</u>	31022
Name (Print): Kcvin Hackett	Signature: The Hachelt	Date: 5 - 10 - 11
Note Any Deficiencies:		
Name (Print): Kevin Hackett	Signature: The Hack litt	Date: 5-1/-11
Note Any Deficiencies:	- -	
Name (Print): Kevin Hackett	Signature: The Hachelt	Date: 5-12-11
Note Any Deficiencies:		
Name (Print): Krvin Hackett	Signature: K- Hachelt	Date: 5-13-11
Note Any Deficiencies:	· · · · · · · · · · · · · · · · · · ·	
Name (Print): Kevin Hackett	Signature: K- Juchett	Date: 5 - 14 - 11
Note Any Deficiencies:		· · · · · · · · · · · · · · · · · · ·
Name (Print): William Began	Signature:	Date: 5-15-11
Note Any Deficiencies:		
Name (Print): William Began	Signature:	Date: 5-16-11
Note Any Deficiencies:	10	
Name (Print): Willian Begay	Signature:	Date: 5-17-11
Note Any Deficiencies:		
Name (Print): Kevin Hackett	Signature: K- Pachitt	Date: 5 - 18 - 11
Note Any Deficiencies:	, 	
Name (Print): Revin Hackett	Signature: K. Hachett	Date: 5-19-11
Note Any Deficiencies:		
Name (Print): Kevin Hackett	Signature: 2- Hachett	Date: 5-20-11
Note Any Deficiencies:		
Name (Print): Kevin Heckett	Signature: K-Hachtt	Date: 5-21-11
Note Any Deficiencies:	e	
Name (Print): lefilliam Begay	Signature:	Date: 5-22-11
Note Any Deficiencies:		
Name (Print): 11/1am Begay	Signature	Date: 5 - 23-11
Note Any Deficiencies:		
Name (Print): 12/11/am Began	Signature:	Date: 5-24-11
Note Any Deficiencies:	-7	and the second
Name (Print):	Signature:	Date:
Note Any Deficiencies:		

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## **Pit Inspection Log Sheet**

(daily while rig is on-site, then weekly as long as liquids remain in the pit)

Well Name: API:	,
Name (Print): MICHAEL L. DEAN Signature: Mincha Ful	Date: 6-1-1/
Note Any Deficiencies: Symples PIT	
Name (Print): MICHMEL L- DEAN Signature: Micha Fa	Date: 6-9-11
Note Any Deficiencies:	
Name (Print): MICHARE LE DEAN Signature: Minchal Par	Date: 6 - 15 - 11
Note Any Deficiencies:	
Name (Print): MICHAEL C. DEAN Signature: Michaela	Date: 6-23-11
Note Any Deficiencies:	
Name (Print): MICHAEL L. DEAN Signature: michael	Date: 7-6-11
Note Any Deficiencies: To WET TO COUER	
Name (Print): MICHMEL L. DEAN Signature: Which In	Date: 7-11-11
Note Any Deficiencies:	
Name (Print): MILITARI L- DIEAN Signature: Minicha fail	Date: フ-20-1/
Note Any Deficiencies:	
Name (Print): Michmel L. DEHN Signature: Minchal La	Date: 7-29-11
Note Any Deficiencies: STILL TO WET TO COUER	
Name (Print): MICHMEL L. DEAN Signature: Uniche En	Date: 8-2-11
Note Any Deficiencies:	
Name (Print): Michael In DEAN Signature: michael	Date: 8-11
Note Any Deficiencies: CALLED FOR DOZER TO GET MOVED IN	
Name (Print): Signature:	Date:
Note Any Deficiencies:	· · · · · · · · · · · · · · · · · · ·
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LEASE # JICARILLA CONTRACT 67 RIO ARRIBA COUNTY, NEW MEXICO BASIN DAKOTA