

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

State of New Mexico  
Energy Minerals and Natural Resources  
Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

Pit, Closed-Loop System, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

8747

- 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

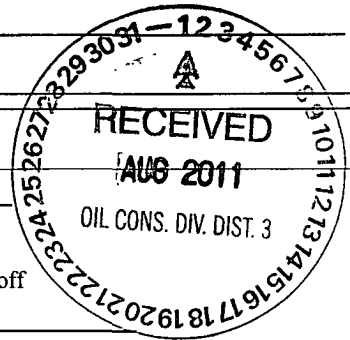
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: Energen Resources Corporation OGRID #: 162928  
Address: 2010 Afton Place, Farmington, NM 87401  
Facility or well name: San Juan 32-5 Unit #101S  
API Number: 30-039-27263 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr P Section 23 Township 32N Range 06W County: Rio Arriba  
Center of Proposed Design: Latitude 36.96065 N Longitude 107.42025 W 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 20 mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
 String-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 1500 bbl Dimensions: L 155 x W 85 x D 10

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: Thickness \_\_\_\_\_ mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_

4.  Below-grade tank: Subsection I of 19.15.17.11 NMAC  
Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
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: Thickness \_\_\_\_\_ mil  LLDPE  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.

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**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, hospital, institution or church*)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify \_\_\_\_\_

7  
**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

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**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 Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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**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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  
 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

**Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  
 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_

Previously Approved Operating and Maintenance Plan API Number: \_\_\_\_\_ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

**Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC  
**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
 Climatological Factors Assessment  
 Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Liner Specifications and Compatibility Assessment - based upon  
 Quality Control/Quality Assurance Construction and Installation Plan the appropriate requirements of 19.15.17.11 NMAC  
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
 Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan  
 Emergency Response Plan  
 Oil Field Waste Stream Characterization  
 Monitoring and Inspection Plan  
 Erosion Control Plan  
 Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

**Proposed Closure:** 19.15.17.13 NMAC

**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type:  Drilling  Workover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Closed-loop System  
 Alternative

Proposed Closure Method:  Waste Excavation and Removal  
 Waste Removal (Closed-loop systems only)  
 On-site Closure Method (Only for temporary pits and closed-loop systems)  
 In-place Burial  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 I of 19.15.17.13 NMAC  
 Site Reclamation 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 identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two 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 occur on or in areas that will not be used for future service and operations?

Yes (If yes, please provide the information below)  No

*Required for impacted areas which will not be used for future service and operations:*

Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection 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 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 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  Yes  No  
 NA
- 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.  
- 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; 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

**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 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

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**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: \_\_\_\_\_

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**OCD Approval:**  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)

**OCD Representative Signature:** Jonathan D. Kelly **Approval Date:** 1/11/2012

**Title:** Compliance Officer **OCD Permit Number:** \_\_\_\_\_

21.

**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:** 4/28/11

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**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.

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**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please identify 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)  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

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**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 36.57376 N Longitude -107.25152 W NAD:  1927  1983

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**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): Anna Stotts Title: Regulatory Analyst

Signature: Anna Stotts Date: 7/25/11

e-mail address: astotts@energen.com Telephone: 505-324-4154

## Well Name: San Juan 32-5 Unit #101S

### 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 OCD is included in this closure report package. Since the pit is located on private surface, the surface owner notification is included in this closure packet.**

- 1) 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 # 30-045-30922) 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 Moss 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	.0258
BTEX	EPA SW-846 8021B or 8260B	50	.661
TPH	EPA SW-846 418.1	2500	1100
GRO/DRO	EPA SW-846 8015M	500	83.6
Chlorides	EPA 300.1	<del>500</del> /1000	220

**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 not 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).

**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 private property. Proof of Deed notice is required since the pit is located on private surface (per NMOCD FAQ dated 10/30/08.) A copy of the submittal to the county is attached.**

- 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 division-approved 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.

**The pit is located on private surface. Seeding was completed on 5/24/11. Seeding or planting will continue until the required cover is reached. The Aztec office of the OCD will also be notified when the disturbed ground successfully achieves re-vegetation.**

- 9) Until the abandonment of the wells on the pad where the pit is located, a steel marker no less than 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 –NMSF079011– San Juan 32-5 Unit #101S – Unit P – Sec.26, T32N, R06W – Pit Burial Site.**



Submit to Appropriate District Office  
 Five Copies :  
 District I  
 1625 N. French Dr , Hobbs, NM 88240  
 District II  
 1301 W Grand Avenue, Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd , Aztec, NM 87410  
 District IV  
 1220 S. St. Francis Dr , Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-105  
 July 17, 2008

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

1. WELL API NO.  
**30-039-27263**  
 2. Type Of Lease  
 STATE  FEE  FED/INDIAN  
 3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:  
 COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)  
 C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19 15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name  
**San Juan 32-5 Unit**  
 6. Well Number  
**#101S**

9. Type of Completion  
 NEW WELL  WORKOVER  DEEPENING  PLUGBACK  DIFFERENT RESERVOIR  OTHER **pit closure**

8 Name of Operator  
**Energen Resources Corporation**

9. OGRID Number  
**162928**

10. Address of Operator  
**2010 Afton Place, Farmington, NM 87401**

11. Pool name or Wildcat  
**Basin Fruitland Coal**

12. Location	Unit Letter	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	<b>P</b>	<b>23</b>	<b>32N</b>	<b>06W</b>						
BH:										

13. Date Spudded  
 14. Date T.D. Reached  
 15. Date Rig Released  
**4/17/11**  
 16. Date Completed (Ready to Produce)  
 17 Elevations (DF & RKB, RT, GR, etc.)

18. Total Measured Depth of Well  
 19 Plug Back Measured Depth  
 20 Was Directional Survey Made  
 21. Type Electric and Other Logs Run

22 Producing Interval(s), of this completion - Top, Bottom, Name

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.  
 DEPTH INTERVAL      AMOUNT AND KIND MATERIAL USED


28. PRODUCTION

Date First Production      Production Method (*Flowing, gas lift, pumping - Size and type pump*)      Well Status (*Prod or Shut-in*)

Date of Test      Hours Tested      Choke Size      Prod'n For Test Period      Oil - Bbl.      Gas - MCF      Water - Bbl.      Gas - Oil Ratio

Flow Tubing Press.      Casing Pressure      Calculated 24-Hour Rate      Oil - Bbl      Gas - MCF      Water - Bbl.      Oil Gravity - API -(*Corr*)

29. Disposition of Gas (*Sold, used for fuel, vented, etc*)      30. Test Witnessed By

31. List Attachments

32 If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

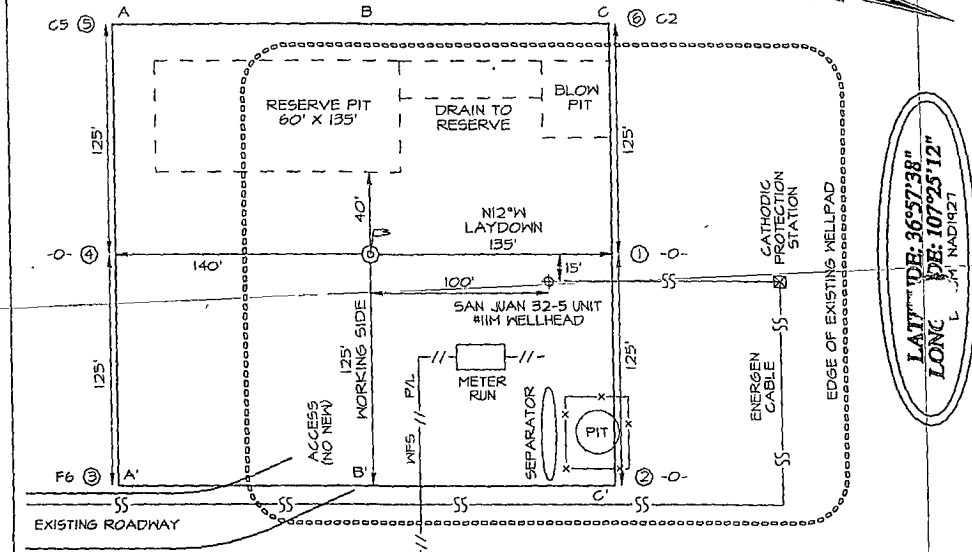
33. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude **36.57376 N** Longitude **107.25152 W** NAD: 1927 X 1983

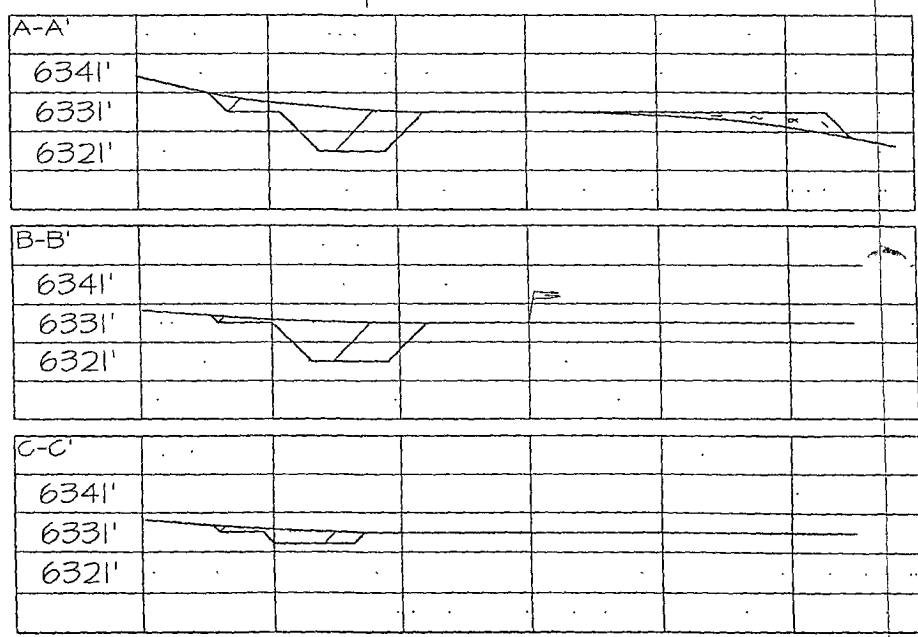
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief  
 Signature      Printed Name      Anna Stotts      Title      Regulatory Analyst      Date      5/23/11  
 E-mail address      astotts@energen.com



**ENERGEN RESOURCES CORPORATION SAN JUAN 32-5 UNIT #101S**  
**710' FSL & 780' FEL, SECTION 23, T32N, R6W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO**  
**GROUND ELEVATION: 6331'**



LAT: 36°57'38"  
 LONG: 107°25'12"  
NAD1983





May 19, 2011

**Certified Mail: 7009 2820 0000 6911 0429**

Alan C. Davis & Mary Anne Davis  
P.O. Box 1784  
Mesilla Park, NM 88047

**Subject: Reserve Pit In-Place Closure  
San Juan 32-5 Unit #101S**

Dear Sir or Madam:

Energen Resources plans to close a reserve pit located on the subject well location. You are on record as the surface owner where this well is located and the New Mexico Oil Conservation Division (NMOCD) rules require notification to the surface owner of our plans to close the reserve pit. NMOCD rules and guidelines will be followed. The well is located in Unit Letter P, Section 23, Township 32N, Range 06W in Rio Arriba County, New Mexico.

If there are any questions or concerns, please contact me at 505-324-4154.

Sincerely,

Anna Stotts  
Regulatory Analyst  
Energen Resources

Cc: Well File (San Juan 32-

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Agent  <input checked="" type="checkbox"/> Addressee  <i>Mary Anne Davis</i></p>
1. Article Addressed to:	B. Received by (Printed Name) C. Date of Delivery
<p>ALAN C. &amp; MARY ANNE DAVIS  P.O. BOX 1784  MESILLA PARK, NM  88047</p> <p>SS 32-5 101S</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  If YES, enter delivery address below: <input type="checkbox"/> No  <i>Mary Anne Davis</i></p>
2. Article Number (Transfer from service label)	<p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
	7009 2820 0000 6911 0429



Client:	Energen	Project #:	03022-0168
Sample ID:	051111	Date Reported:	05-12-11
Laboratory Number:	58156	Date Sampled:	05-11-11
Chain of Custody:	11718	Date Received:	05-11-11
Sample Matrix:	Soil	Date Analyzed:	05-12-11
Preservative:	Cool	Date Extracted:	05-12-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	25.8	0.9
Toluene	313	1.0
Ethylbenzene	23.9	1.0
p,m-Xylene	236	1.2
o-Xylene	62.7	0.9
<b>Total BTEX</b>	<b>661</b>	


ND - Parameter not detected at the stated detection limit.

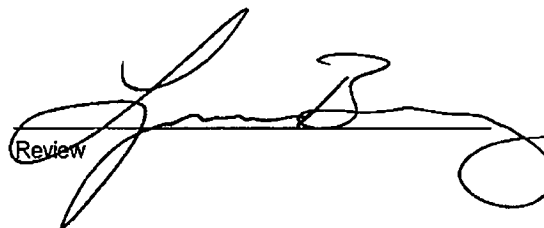
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	103 %
	1,4-difluorobenzene	106 %
	Bromochlorobenzene	100 %

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: **San Juan 32-5 #101S**


  
 Analyst


  
 Review



Client:	Energen	Project #:	03022-0168
Sample ID:	051111	Date Reported:	05/12/11
Laboratory Number:	58156	Date Sampled:	05/10/11
Chain of Custody No:	11718	Date Received:	05/11/11
Sample Matrix:	Soil	Date Extracted:	05/12/11
Preservative:	Cool	Date Analyzed:	05/12/11
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
<b>Total Petroleum Hydrocarbons</b>	<b>1,100</b>	<b>5.0</b>

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: **San Juan 32-5 #101S**

Analyst

Review

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

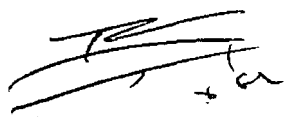
Client:	Energen	Project #:	03022-0168
Sample ID:	051111	Date Reported:	05-12-11
Laboratory Number:	58156	Sampled:	05-10-11
Chain of Custody No:	11718	Date Received:	05-11-11
Sample Matrix:	Soil	Date Extracted:	05-12-11
Preservative:	Cool	Date Analyzed:	05-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
<b>Gasoline Range (C5 - C10)</b>	<b>63.4</b>	<b>0.2</b>
<b>Diesel Range (C10 - C28)</b>	<b>20.2</b>	<b>0.1</b>
<b>Total Petroleum Hydrocarbons</b>	<b>83.6</b>	

ND - Parameter not detected at the stated detection limit.

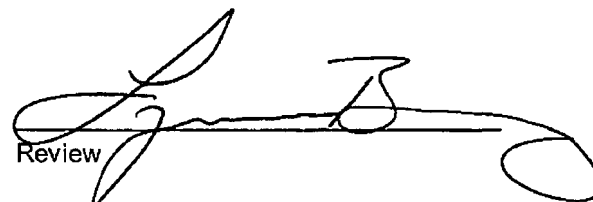
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **San Juan 32-5 #101S**




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Analyst




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Review



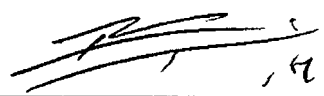
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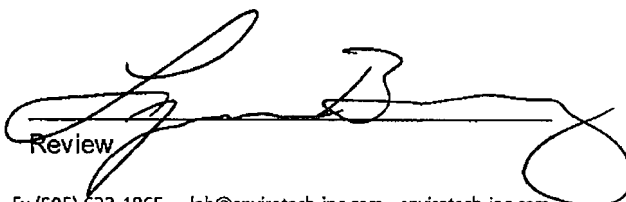
Client:	Energen	Project #:	03022-0168
Sample ID:	051111	Date Reported:	05/12/11
Lab ID#:	58156	Date Sampled:	05/10/11
Sample Matrix:	Soil	Date Received:	05/11/11
Preservative:	Cool	Date Analyzed:	05/12/11
Condition:	Intact	Chain of Custody:	11718

Parameter	Concentration (mg/Kg)
Total Chloride	220

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: **San Juan 32-5 #101S**

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review



### Pit Inspection Log Sheet

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

**Well Name:** SAN JUAN 32-5 #1013 **API:**

Name (Print): MICHAEL L DEAN Signature: *[Signature]* Date: 4-19-11

Note Any Deficiencies:

Name (Print): MICHAEL L DEAN Signature: *[Signature]* Date: 4-28-11

Note Any Deficiencies:

Name (Print): MICHAEL L DEAN Signature: *[Signature]* Date: 5-5-11

Note Any Deficiencies:

Name (Print): Signature: Date:

Note Any Deficiencies:

Name (Print): Signature: Date:

Note Any Deficiencies:

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Name (Print): Signature: Date:

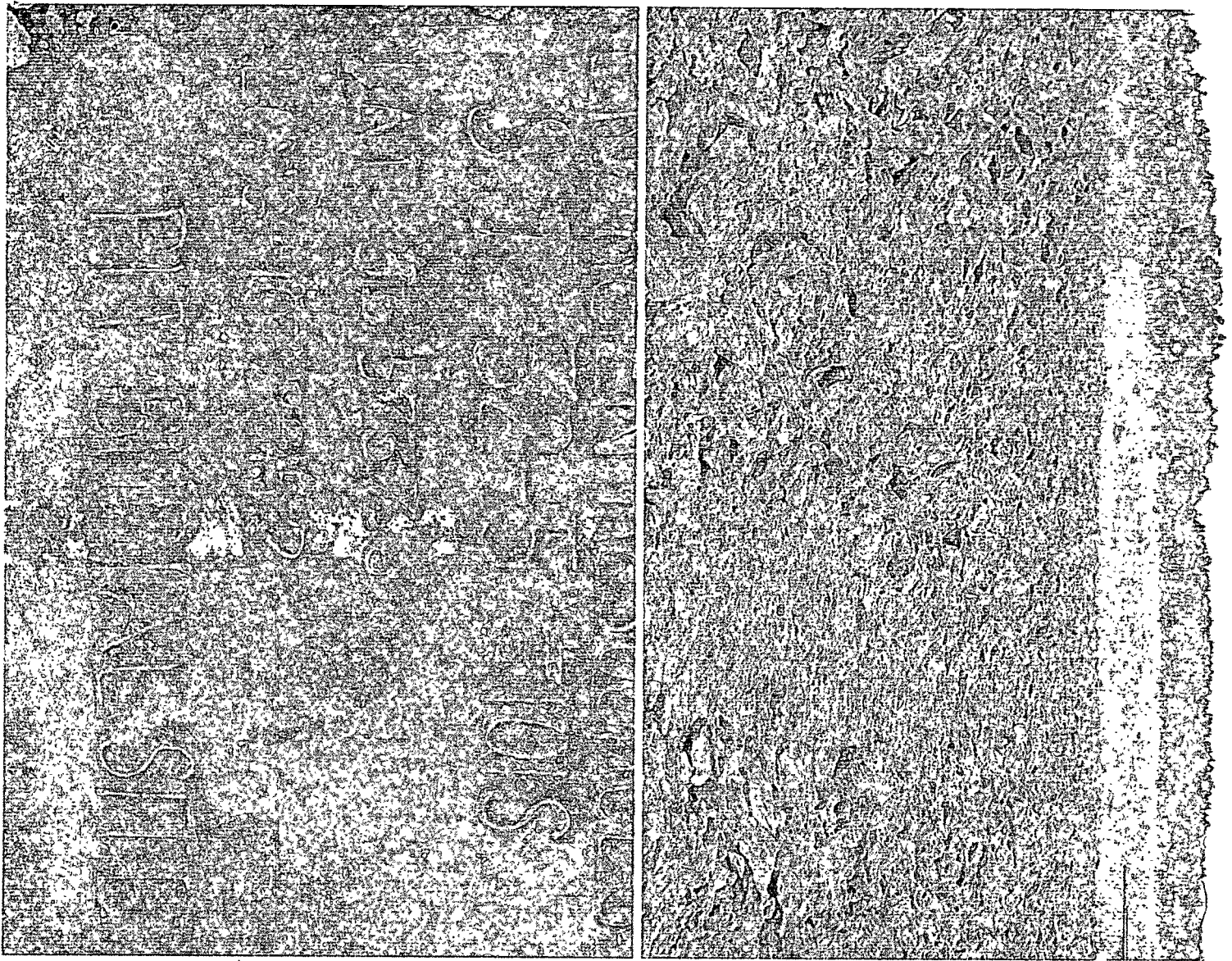
Note Any Deficiencies:

**Pit Inspection Log Sheet**

*Pit*

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

Well Name:	<i>San Juan 32-5#1015</i>	API:	<i>30-039-27263</i>		
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-9-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-10-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-11-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-12-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-13-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-14-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-15-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-16-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-17-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):	<i>Dennis Hoefel</i>	Signature:	<i>Dennis Hoefel</i>	Date:	<i>4-24-2011</i>
Note Any Deficiencies: <i>None</i>					
Name (Print):		Signature:		Date:	
Note Any Deficiencies:					
Name (Print):		Signature:		Date:	
Note Any Deficiencies:					
Name (Print):		Signature:		Date:	
Note Any Deficiencies:					
Name (Print):		Signature:		Date:	
Note Any Deficiencies:					
Name (Print):		Signature:		Date:	
Note Any Deficiencies:					



R E S O U R C E S  
C O R P O R A T I O N

**SAN JUAN 32-5 UNIT #101S**

**710' FSL 780' FEL**

**UNIT P SEC. 23 T032N R006W**

**LATITUDE N 36° 57'38"**

**LONGITUDE W 107° 25'12"**

**LEASE #SF-079487A ELEV. 6331'**

**RIO ARRIBA COUNTY, NEW MEXICO**

**BASIN FRUITLAND COAL**

**DP#20331A**



RCVD JAN 11 '12

OIL CONS. DIV.

DIST. 3

### **Proof of Closure Notice**

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