

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
871 S. First St., 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

Form C-144  
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.  
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

Type of action:  Below grade tank registration  
 Permit of a pit or proposed alternative method  
 Closure of a pit, below-grade tank, or proposed alternative method  
 Modification to an existing permit/or registration  
 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

RCVD AUG 21 '13  
OIL CONS. DIV.  
DIST. 3

*Instructions: Please submit one application (Form C-144) per individual pit, 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: ENERVEST OPERATING, L.L.C OGRID #: 143199  
Address: 1001 FANNIN ST., SUITE 800, HOUSTON, TX 77002  
Facility or well name: JICARILLA APACHE 102 # 7N  
API Number: 30-039-30068 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr C Section 3 Township 27026N Range 04W County: RIO ARRIBAY  
Center of Proposed Design: Latitude 36.520306 Longitude -107.240722 NAD:  1927  1983  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.  **Pit:** Subsection F, G or J of 19.15.17.11 NMAC  
Temporary:  Drilling  Workover  
 Permanent  Emergency  Cavitation  P&A  Multi-Well Fluid Management Low Chloride Drilling Fluid  yes  no  
 Lined  Unlined Liner type: Thickness 20 mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
 String-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 11000 bbl Dimensions: L 125' x W 75' x D 10'

3.  **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  HDPE  PVC  Other \_\_\_\_\_

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

5. **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 4' HOGWIRE FENCE W/ BARBED WIRE ON TOP

6.

**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)

7.

**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 19.15.16.8 NMAC

8.

**Variations 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:**

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

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

9.

**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. Siting criteria does not apply to drying pads or above-grade tanks.*

**General siting**

**Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.**

-  NM Office of the State Engineer - iWATERS database search;  USGS;  Data obtained from nearby wells

Yes  No  
 NA

**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

Yes  No  
 NA

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. **(Does not apply to below grade tanks)**

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

Yes  No

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)**

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

Yes  No

Within an unstable area. **(Does not apply to below grade tanks)**

- 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. **(Does not apply to below grade tanks)**

- FEMA map

Yes  No

**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

Yes  No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Yes  No

**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

Yes  No

Within 300 feet from a occupied 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 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Yes  No

<p>Within 100 feet of a wetland.          - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b><u>Temporary Pit Non-low chloride drilling fluid</u></b></p>	
<p>Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).          - Topographic map; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;          - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet of a wetland.          - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b><u>Permanent Pit or Multi-Well Fluid Management Pit</u></b></p>	
<p>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</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 1000 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</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.          - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 feet of a wetland.          - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No

10.  
**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: \_\_\_\_\_

11.  
**Multi-Well Fluid Management Pit 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.*

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  
 A List of wells with approved application for permit to drill associated with the pit.  
 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  
 Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

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

12.

**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 the appropriate requirements of 19.15.17.11 NMAC
- Quality Control/Quality Assurance Construction and Installation Plan
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.

**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  Multi-well Fluid Management Pit  
 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

14.

**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 C 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 H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

**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 require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, 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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 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 incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input type="checkbox"/> No

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 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

16. **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 E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K 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 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements 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 H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17. **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: \_\_\_\_\_

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

OCD Representative Signature: Jonathan D. Kelly Approval Date: 8/21/2013

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

19. **Closure Report (required within 60 days of closure completion):** 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: 11/6/2012

20. **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.

21. **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 for private land only)
- 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 36.520306 Longitude -107.240722 NAD:  1927  1983

**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): BART TRAVINO Title: REGULATORY ANALYST

Signature:  Date: 8/20/2013

e-mail address: BTRAVINO@ENERGY.T.N.G Telephone: 713-659-3500



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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

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No records found.

**PLSS Search:**

**Section(s):** 3-5

**Township:** 26N

**Range:** 04W

**EnerVest Operating, L.L.C. (EV)**  
**Temporary Pit Closure Report**  
Jicarilla Apache 102 #7N (30-039-30068)  
Sec. 03 T26N R04W Unit C  
Lat: 36.520306 Long: -107.240722

**Rule 19.15.17.13 NMAC**

In accordance with the above mentioned rule, EV submits this closure program for all EV locations where a temporary pit (reserve pit) is required. This will be our plan for all temporary pits unless a special condition warrants. In that case another plan will be submitted for that particular temporary pit.

All closure activities will include proper documentation and be available for review upon request and will be submitted to the appropriate division office within 60 days of closure of all temporary pits. A closure report will be filed on OCD Form C-144 and will include the following:

- Details on Capping and Covering, where applicable – n/a
- Plat Plan (Pit Diagram) – **Location Plat & Updated Site Diagram attached**
- Inspection Reports – **Pit Inspection Log attached**
- Sampling Reports – **Envirotech Report Summary attached**
- OCD Form C-105 – **filed on BLM Form 3160-4 dated 9/6/2012**
- Copy of Deed Notice filed with County Clerk, where applicable – n/a

1. EV shall notify the surface owner by certified mail, return receipt requested that we plan to close a temporary pit. **Sheryl Vigil with BIA-Jicarilla Agency notified of temporary pit closure via Certified U.S. Mail return receipt requested on October 12, 2012.**
2. EV shall notify the appropriate division district office verbally or by other means at least 72 hours, but not more than one week, prior to closing a temporary pit. Such notice will include the location to be closed by unit letter, section, township and range, well name and number, and appropriate API number of the well on which the temporary pit exists. **NMOCD-Aztec was notified on October 11, 2012 via email of the proposed closure of this temporary pit.**
3. EV shall remove all free standing liquids at the start of the closure process for all division approved temporary pits. Such liquids will be disposed of in an approved facility or be reclaimed in a manner that the appropriate division office approves. The facilities to be used will be:

TNT Land Farm	Permit# NM-01-0008
Envirotech Land Farm	Permit# NM-01-0011

**Prior to closure of the temporary pit, all liquids were removed and disposed at TNT Land Farm (Permit# NM-01-008)**
4. Within 6 months of the date the rig is released, EV will ensure that the associated temporary pit is closed, re-contoured, and reseeded. If weather or seasonal conditions prevent the reclamation within 6 months, EV will request an extension from the regulatory agencies involved. **PPP Rig released on 8/28/12. Temporary pit was closed on or around 11/6/12. See #11 for additional detail.**



5. Liner of temporary pits shall be removed above “mud level” after stabilization. Removal of liner will consist of manually or mechanically cutting line at mud level and removing all remaining liner. Care will be taken to remove all of line, all, if any excessive line will be disposed of at:

San Juan Regional Landfill Permit#SWM052426

6. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ration shall not exceed 3 parts clean soil to 1 part pit contents.
7. A five point composite sample will be taken of the pit using sampling tools and all samples tested per 19.15.17.13(B)(1)(b) NMAC. In the event that the criteria are not met, all contents will be handled per 19.15.17.13(B)(1)(a).

Sample	Determined By:	Maximum Limit
Benzene	EPA SW-846 method 8021B or 8260B	0.2 mg/kg
BTEX	EPA SW-846 method 8021B or 8260B	50mg/kg
TPH	EPA SW-846 method 418.1*	2500 mg/kg
GRO & DRO combined	EPA SW-846 method 8015M	
Chlorides	EPA method 300.1	1000 mg/kg **

\* or other EPA method that the division approves

\*\* or the background concentration, whichever is greater

**The samples taken by EV’s Sr. HSE Specialist were analyzed by Envirotech Analytical Laboratory. The Report Summary is attached.**

8. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of fill at the site to include one foot of topsoil, or the background thickness of topsoil, whichever is greater. If standard testing fails, EV will dig and haul all contents as per 19.15.17.13. After doing such, confirmation sampling will be conducted to ensure a release has not occurred. **There were no visible signs of leakage upon removal of the temporary pit. The results for all constituents were within the tolerance levels as established by the OCD per the approval of this temporary pit permit.**
9. During the stabilization process, if the liner is ripped by equipment the appropriate district office will be notified within 48 hours and the liner will be repaired if possible. If the line cannot be repaired, then all contents will be excavated and removed.
10. Dig and Haul Material will be transported to:
 

TNT Land Farm	Permit#NM-01-0008
Envirotech Land Farm	Permit# NM-01-0011
11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be

placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape. **Dirt work was performed by Costilla Oilfield Services. The excavation was backfilled utilizing stockpiled soil already on the location. The location was contoured to match the surrounding terrain. Photos attached.**

12. Notification will be sent to OCD when the reclaimed area is seeded. **The temporary pit is on an approved pad site and no re-seeding was performed at the time of closure.**
  
13. EV shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (unimpacted) 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. Repeat seeding or planting will be contoured until successful vegetative grown occurs.

Type	Variety or Cultivator	PLS/A
Western Wheatgrass	Arriba	3.0
Indian Ricegrass	Paloma or Rimrock	3.0
Slender Wheatgrass	San Luis	2.0
Crested Wheatgrass	Hy-Crest	3.0
Bottlebrush Squirreltail	Unknown	2.0
Four-wing Saltbrush	Delar	0.25

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity x Germination/100

Two lots of seed can be compared on the basis of PLS:

	Source 1 (poor quality)	Source 2 (better quality)
Purity	50%	80%
Germination	40%	63%
Percent PLS	20%	50%

14. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pad. The plate will be easily removed and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operators information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Letter, Section, Township, Range and an indicator that the marker is an onsite burial location. **A pit marker was installed to indicate the location of this pit. Photos attached.**



ENERVEST

CERTIFIED MAIL W/ RETURN RECEIPT  
7009 2250 0003 1416 3054

October 12, 2012

Bureau of Indian Affairs  
Jicarilla Agency  
Branch of Real Property  
Energy & Minerals Management  
P. O. Box 167  
Dulce, New Mexico 87528

Attention: Sherryl Vigil  
Superintendent

RE: Closure of Reserve Pit  
Jicarilla Apache 102 7N (API 30-039-30068)

Dear Ms. Vigil:

In an effort to be in compliance with NMAC 19.15.17.13 (J) regarding notifications to surface owners concerning the closure of reserve pits, please be advised that EnerVest Operating, LLC is in process of preparing OCD Form C-144 to close the reserve pit on the above referenced property.

The reserve pit located on this site is no longer necessary. It is our intent to close this pit by November 1, 2012. This timeline is completely dependent upon the availability of equipment, testing requirements, and weather conditions. Enervest will fully comply with NMAC 19.15.17.13 (E) in all work performed.

If you have any questions regarding this process, please feel free to contact the undersigned at 713-495-1571 at any time.

Sincerely,

Janet M. Bienski  
Associate Regulatory Analyst  
EnerVest Operating, LLC

cc: Mr. Kurt Sandovil (via email)  
Mr. Jonathon Kelly (via email)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. <input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you. <input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature <i>Kenny Harrison</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <i>Kenny Harrison</i> C. Date of Delivery <i>10-17-12</i>
1. Article Addressed to: <i>Sherry Vigil</i> <i>BIA</i> <i>P.O. Box 167</i> <i>Dulce, NM 87528</i>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below: <b>RECEIVED</b> <i>OCT 23 2012</i> <b>ENERVEST</b> 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. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
2. Article (Trans) PS Form	595-02-M-154

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<b>Total Postage &amp; Fees</b>	<b>\$</b>	

Sent To *Sherry Vigil*

Street, Apt. No., or PO Box No.

City, State, ZIP+4 *Dulce NM 87528*

PS Form 3800, August 2006 See Reverse for Instructions

7009 2250 0003 1416 3054

UNITED STATES POSTAL SERVICE



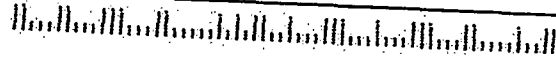
First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

ENERVEST Operating LLC  
1001 FANNIN Street #800

Houston, TX 77002

ATTN: Janet Bensch



#### Certified Mail Provides:

- ❑ A mailing receipt
- ❑ A unique identifier for your mailpiece
- ❑ A record of delivery kept by the Postal Service for two years

#### Important Reminders:

- ❑ Certified Mail may ONLY be combined with First-Class Mail® or Priority Mail®.
- ❑ Certified Mail is *not* available for any class of international mail.
- ❑ NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- ❑ For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS® postmark on your Certified Mail receipt is required.
- ❑ For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "*Restricted Delivery*".
- ❑ If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

**IMPORTANT: Save this receipt and present it when making an inquiry.**

PS Form 3800, August 2006 (Reverse) PSN 7530-02-000-9047



IN REPLY REFER TO:  
Energy & Minerals Management

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS  
JICARILLA AGENCY  
P.O. BOX 167  
DULCE, NEW MEXICO 87528



OCT 15 2012

Ms. Janet M. Bienski  
EnerVest Operating, LLC  
1001 Fannin Street, Suite 800  
Houston, Texas 77002

Dear Ms. Bienski:

This is in reference to your notice, dated October 11, 2012, concerning the following location, which is on TRIBAL SURFACE:

**Jicarilla Apache 102 #7N:**

Located in Section 3, Township 26 North, Range 4 West, Rio Arriba County in the State of New Mexico (API No. 30-039-30068).

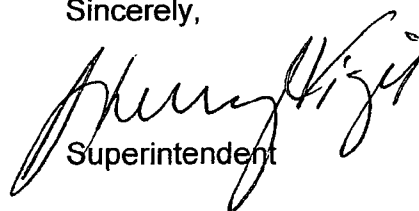
**Scope of Work:**

Notice of intent to close pit.

The Bureau of Indian Affairs, Jicarilla Agency, hereby grants EnerVest Operating, LLC and its contractors, permission to perform work on the above mentioned location. Please submit an Affidavit of Completion and final report, when completed.

If you should have any questions or concerns, please contact Mr. Kurt Sandoval, Acting Realty Officer, at (575) 759-3936.

Sincerely,

  
Superintendent

cc: Jicarilla Oil and Gas Administration

**Fry, Pamela**

---

**From:** Bienski, Janet  
**Sent:** Monday, October 15, 2012 12:42 PM  
**To:** Gardner, Wilbert; Trevino, Bart; Fry, Pamela  
**Subject:** FW: PTPW for Jicarilla Apache 102 #7N  
**Attachments:** OG LTTR RE; PTPW for EVO Jic.Apache102#7N; 10-15-2012.pdf

Janet Bienski  
EnerVest Operating, L.L.C.  
Associate Regulatory Analyst  
713-495-1571  
[jbienski@enervest.net](mailto:jbienski@enervest.net)

---

**From:** Mike, Deedra [<mailto:Deedra.Mike@bia.gov>]  
**Sent:** Monday, October 15, 2012 12:10 PM  
**To:** Bienski, Janet  
**Cc:** Sandoval, Kurt; Reval, Marlana; [dixonsandoval@jicarillaoga.com](mailto:dixonsandoval@jicarillaoga.com); [cascindrawillie@jicarillaoga.com](mailto:cascindrawillie@jicarillaoga.com); [georgeloretto@jicarillaoga.com](mailto:georgeloretto@jicarillaoga.com)  
**Subject:** PTPW for Jicarilla Apache 102 #7N

Greetings,  
Attached please find the following **Outgoing Correspondence**, regarding **Permission to Perform Work**, that may be of high importance to you. Please advise should you have any questions or concerns. The original(s) will be mailed accordingly.  
Thank You

Deedra Mike  
E&M Secretary  
Energy and Minerals Management Program  
BIA Jicarilla Agency  
P: 575-759-3976  
F: 575-759-3986

**From:** Sandoval, Kurt  
**Sent:** Friday, October 12, 2012 9:19 AM  
**To:** Reval, Marlana; Mike, Deedra  
**Subject:** FW: 72 hour Notice of Pit Closure - Jicarilla Apache 102 7N

FYI and Permission to Proceed request.

---

**From:** Bienski, Janet [<mailto:JBienski@EnerVest.net>]  
**Sent:** Thursday, October 11, 2012 4:07 PM  
**To:** [jonathan.kelly@state.nm.us](mailto:jonathan.kelly@state.nm.us); Sandoval, Kurt  
**Cc:** Gardner, Wilbert; Trevino, Bart; Fry, Pamela  
**Subject:** RE: 72 hour Notice of Pit Closure - Jicarilla Apache 102 7N

Apologize for the error...Jicarilla Apache 102 7N (API 30-039-30068). Legal description is UL C, Section 3, TS 26N, Range 04W.

Janet Bienski

• EnerVest Operating, L.L.C.  
Associate Regulatory Analyst  
713-495-1571  
[jbienski@enervest.net](mailto:jbienski@enervest.net)

---

**From:** Bienski, Janet

**Sent:** Thursday, October 11, 2012 4:58 PM

**To:** 'jonathan.kelly@state.nm.us'; 'kurt.sandoval@bia.gov'

**Cc:** Gardner, Wilbert; Fry, Pamela; Trevino, Bart

**Subject:** 72 hour Notice of Pit Closure - Jicarilla Apache 102 7N

Gentlemen:

Enervest Operating is planning on closing the pit located on the Jicarilla Apache 102 No. 007N ( API# 30-039-30068).  
Legal description - UL-C-3-26M-4W.

Janet Bienski

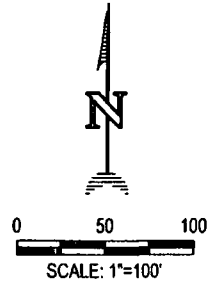
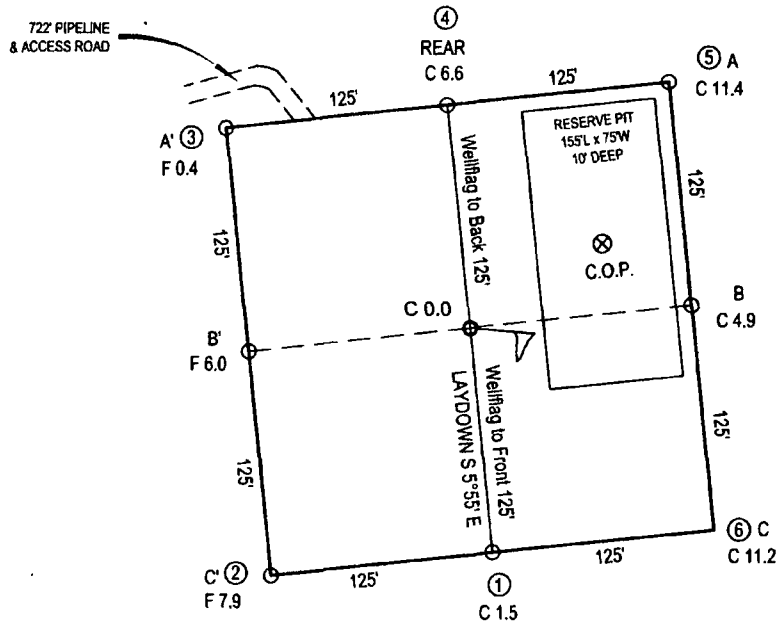
EnerVest Operating, L.L.C.  
Associate Regulatory Analyst  
713-495-1571  
[jbienski@enervest.net](mailto:jbienski@enervest.net)



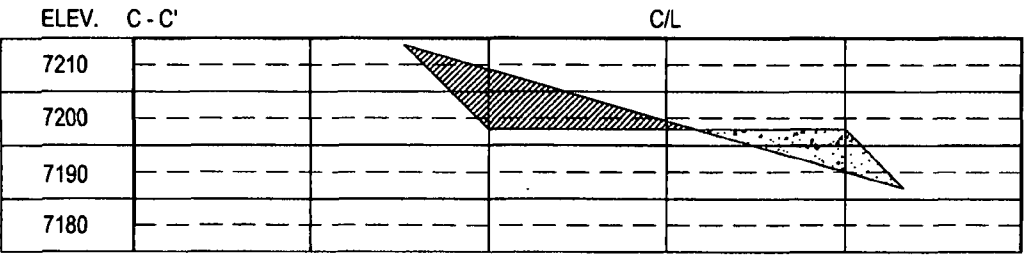
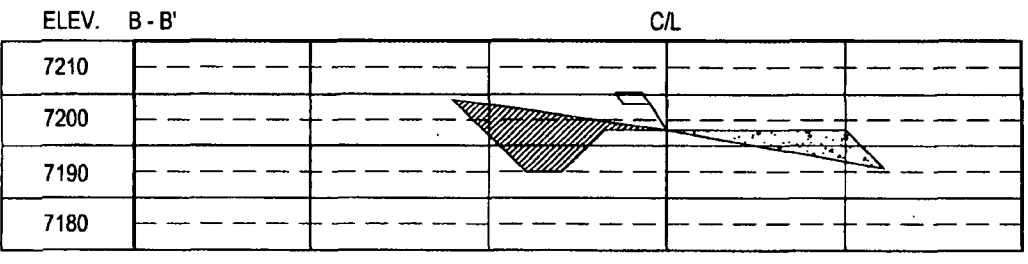
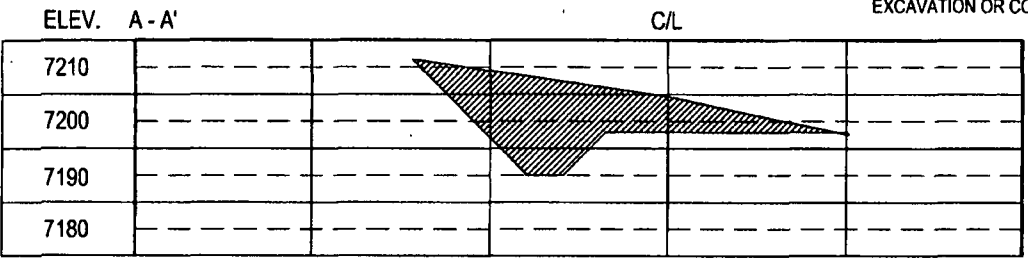
ENERVEST OPERATING, LLC  
 JICARILLA 102 No. 7N, 845 FNL 1980 FWL  
 SECTION 3, T26N, R4W, N.M.P.M., RIO ARRIBA COUNTY, N.M.  
 GROUND ELEVATION: 7203', DATE: SEPTEMBER 14, 2005

**WELL FLAG**  
 NAD 83  
 LAT. = 36°31'13.1" N.  
 LONG. = 107°14'26.6" W.  
 NAD 27  
 LAT. = 36°31'13.02818" N.  
 LONG. = 107°14'24.44866" W.

**CENTER OF PIT**  
 NAD 83  
 LAT. = 36.52041° N.  
 LONG. = 107.24050° W.  
 NAD 27  
 LAT. = 36°31'13.44218" N.  
 LONG. = 107°14'23.63872" W.



NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.



NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

REVISION:	DATE:	REVISED BY:
CORRECTED LOCATION OF ACCESS	4/27/12	G.V.
OPERATOR NAME CHANGE &	11/01/11	G.V.
CAD FILE NAME CHANGE		

**Daggett Enterprises, Inc.**  
 Surveying and Oil Field Services  
 P.O. Box 510 Farmington, NM 87499  
 Phone (505) 326-1772 Fax (505) 326-6019  
 NEW MEXICO L.S. No. 8894

DRAWN BY: G.V.	CADFILE: EY081_CFB
ROW#: EY081	DATE: 9/29/05

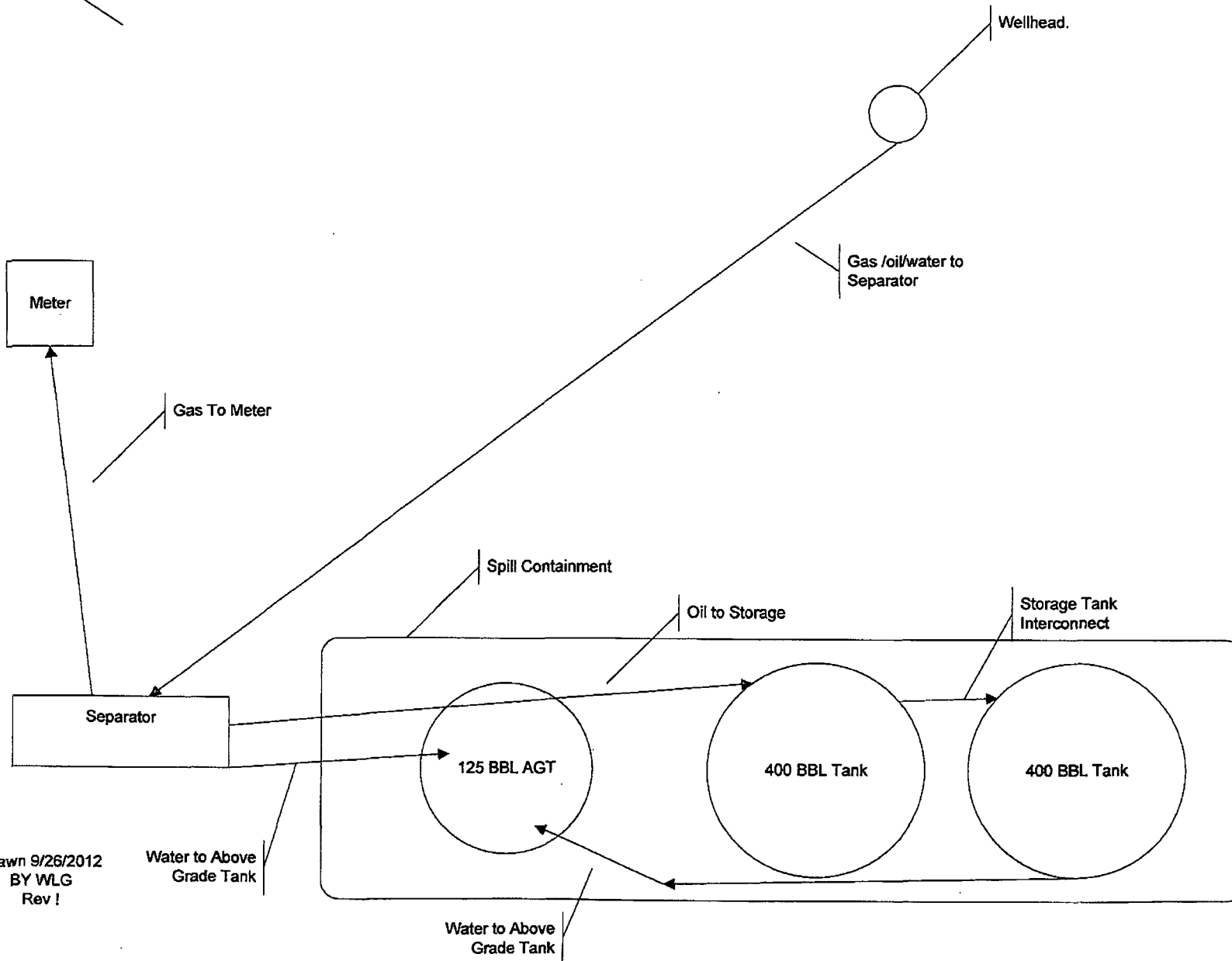
Roadway

Enervest Operating LLC  
2700 Farmington Ave  
Building-K, Suite #1  
Farmington NM 87041

Apache 102-7MN  
API # 30-039-30068  
UL-C S-3 T-26N R-4W



North



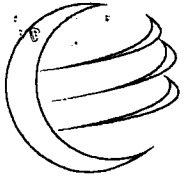
Drawn 9/26/2012  
BY WLG  
Rev 1

Water to Above  
Grade Tank

Water to Above  
Grade Tank

## Jic 102-7N Pit Inspection Log.

	Liner Intact	Minimal 2 FT freeboard	Pit free of trash	Fence in good condition	Berm in good condition	Visible Signs of Leakage
28-Jun	Yes	Yes	Yes	Yes	Yes	No
29-Jun	Yes	Yes	Yes	Yes	Yes	No
30-Jun	Yes	Yes	Yes	Yes	Yes	No
1-Jul	Yes	Yes	Yes	Yes	Yes	No
2-Jul	Yes	Yes	Yes	Yes	Yes	No
3-Jul	Yes	Yes	Yes	Yes	Yes	No
4-Jul	Yes	Yes	Yes	Yes	Yes	No
5-Jul	Yes	Yes	Yes	Yes	Yes	No
6-Jul	Yes	Yes	Yes	Yes	Yes	No
7-Jul	Yes	Yes	Yes	Yes	Yes	No
8-Jul	Yes	Yes	Yes	Yes	Yes	No
9-Jul	Yes	Yes	Yes	Yes	Yes	No
10-Jul	Yes	Yes	Yes	Yes	Yes	No
12-Jul	Yes	Yes	Yes	Yes	Yes	No
19-Jul	Yes	Yes	Yes	Yes	Yes	No
26-Jul	Yes	Yes	Yes	Yes	Yes	No
2-Aug	Yes	Yes	Yes	Yes	Yes	No
8-Aug	Yes	Yes	Yes	Yes	Yes	No
16-Aug	Yes	Yes	Yes	Yes	Yes	No
23-Aug	Yes	Yes	Yes	Yes	Yes	No
30-Aug	Yes	Yes	Yes	Yes	Yes	No
6-Sep	Yes	Yes	Yes	Yes	Yes	No
13-Sep	Yes	Yes	Yes	Yes	Yes	No
20-Sep	Yes	Yes	Yes	Yes	Yes	No
27-Sep	Yes	Yes	Yes	Yes	Yes	No
4-Oct	Yes	Yes	Yes	Yes	Yes	No
11-Oct	Yes	Yes	Yes	Yes	Yes	No
18-Oct	Yes	Yes	Yes	Yes	Yes	No
25-Oct	Yes	Yes	Yes	Yes	Yes	No
5-Nov	Closure					



# envirotech

Analytical Laboratory

## Report Summary

Client: Enervest Operating  
Chain of Custody Number: 14903  
Samples Received: 09-27-12  
Job Number: 05123-0002  
Sample Number(s): 63359  
Project Name/Location: 102-7~~W~~<sup>N</sup> Pit

Entire Report Reviewed By:

Date:

10/3/12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



**envirotech**  
Analytical Laboratory

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

Client:	Enervest Operating	Project #:	05123-0002
Sample ID:	Reserve Pit	Date Reported:	10-01-12
Laboratory Number:	63359	Date Sampled:	09-27-12
Chain of Custody No:	14903	Date Received:	09-27-12
Sample Matrix:	Solid	Date Extracted:	09-28-12
Preservative:	Cool	Date Analyzed:	10-01-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
<b>Gasoline Range (C5 - C10)</b>	<b>ND</b>	<b>0.2</b>
<b>Diesel Range (C10 - C28)</b>	<b>2.2</b>	<b>0.1</b>
<b>Total Petroleum Hydrocarbons</b>	<b>2.2</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: ~~102-7M~~ Pit



# envirotech

Analytical Laboratory

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

**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	1001TCAL QA/QC	Date Reported:	10-01-12
Laboratory Number:	63350	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-01-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
<b>Gasoline Range C5 - C10</b>	10-01-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
<b>Diesel Range C10 - C28</b>	10-01-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%

<b>Blank Conc. (mg/L - mg/Kg)</b>	Concentration	Detection Limit
<b>Gasoline Range C5 - C10</b>	ND	0.2
<b>Diesel Range C10 - C28</b>	ND	0.1
<b>Total Petroleum Hydrocarbons</b>	ND	

<b>Duplicate Conc. (mg/Kg)</b>	Sample	Duplicate	% Difference	Accept. Range
<b>Gasoline Range C5 - C10</b>	ND	ND	0.0%	0 - 30%
<b>Diesel Range C10 - C28</b>	ND	ND	0.0%	0 - 30%

<b>Spike Conc. (mg/Kg)</b>	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
<b>Gasoline Range C5 - C10</b>	ND	250	245	97.9%	75 - 125%
<b>Diesel Range C10 - C28</b>	ND	250	283	113%	75 - 125%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 63350-63353 and 63359-63362



# envirotech

Analytical Laboratory

**EPA METHOD 8021**  
**AROMATIC VOLATILE ORGANICS**

Client:	Enervest Operating	Project #:	05123-0002
Sample ID:	Reserve Pit	Date Reported:	10-02-12
Laboratory Number:	63359	Date Sampled:	09-27-12
Chain of Custody:	14903	Date Received:	09-27-12
Sample Matrix:	Solid	Date Analyzed:	10-01-12
Preservative:	Cool	Date Extracted:	09-28-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	17.8	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	63.1	10.0
o-Xylene	17.6	10.0
<b>Total BTEX</b>	<b>98.5</b>	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	82.0 %
	1,4-difluorobenzene	91.9 %
	Bromochlorobenzene	103 %

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

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

Comments: 102-7M Pit

Client:	N/A	Project #:	N/A
Sample ID:	1001BCA2 QA/QC	Date Reported:	10-02-12
Laboratory Number:	63361	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-01-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0-15%			
Benzene	9.0010E-06	9.0444E-06	0.005	ND	0.2
Toluene	8.3530E-06	8.3530E-06	0.000	ND	0.2
Ethylbenzene	9.0928E-06	9.0928E-06	0.000	ND	0.2
p,m-Xylene	6.3743E-06	6.4079E-06	0.005	ND	0.2
o-Xylene	9.0214E-06	9.0214E-06	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	28.6	28.5	0.003	0 - 30%	10
Toluene	12100	12700	0.050	0 - 30%	10
Ethylbenzene	9560	9480	0.008	0 - 30%	10
p,m-Xylene	66500	68800	0.035	0 - 30%	10
o-Xylene	25800	27000	0.047	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	28.6	2500	2670	106	39 - 150
Toluene	12100	2500	17300	118	46 - 148
Ethylbenzene	9560	2500	13900	115	32 - 160
p,m-Xylene	66500	5000	70800	99.0	46 - 148
o-Xylene	25800	2500	29000	102	46 - 148

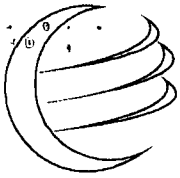
ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

**Comments: QA/QC for Samples 63359-63362**





# envirotech

Analytical Laboratory

## Chloride

Client:	Enervest Operating	Project #:	05123-0002
Sample ID:	Reserve Pit	Date Reported:	10-03-12
Lab ID#:	63359	Date Sampled:	09-27-12
Sample Matrix:	Solid	Date Received:	09-27-12
Preservative:	Cool	Date Analyzed:	09-28-12
Condition:	Intact	Chain of Custody:	14903

Parameter	Concentration (mg/Kg)
Total Chloride	78.4

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: ~~102-7~~<sup>N</sup> Pit

# CHAIN OF CUSTODY RECORD

14903

Client: <b>ENERQUEST OPERATING</b>	Project Name / Location: <b>102-7M PIT</b>	ANALYSIS / PARAMETERS											
Email results to: <b>WGARDNER@ENERQUEST</b>	Sampler Name: <b>L GARDNER</b>	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
Client Phone No.: <b>505-320-7924</b>	Client No.: <b>05123-002</b>												

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HgCl <sub>2</sub>	HCl													
RESERVE PIT	9/20/12	14:29	63359	1/4 oz.				X	X								X		X

Relinquished by: (Signature) <i>[Signature]</i>	Date 9/20	Time 16:37	Received by: (Signature) <i>Jessie Hamer</i>	Date 9-21-12	Time 14:37
--	--------------	---------------	---	-----------------	---------------

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
------------------------------	------	------	--------------------------	------	------

Sample Matrix  
 Soil  Solid  Sludge  Aqueous  Other

Sample(s) dropped off after hours to secure drop off area.



# ENERVEST OPERATING, LLO

JICARILLA APACHE 102 #7M  
BLANCO MESA VERDE / BASIN DAKOTA

JICARILLA CONTRACT 102

API NO. 30-039-30088

(G) MENW 845 ML & 1980' FWL

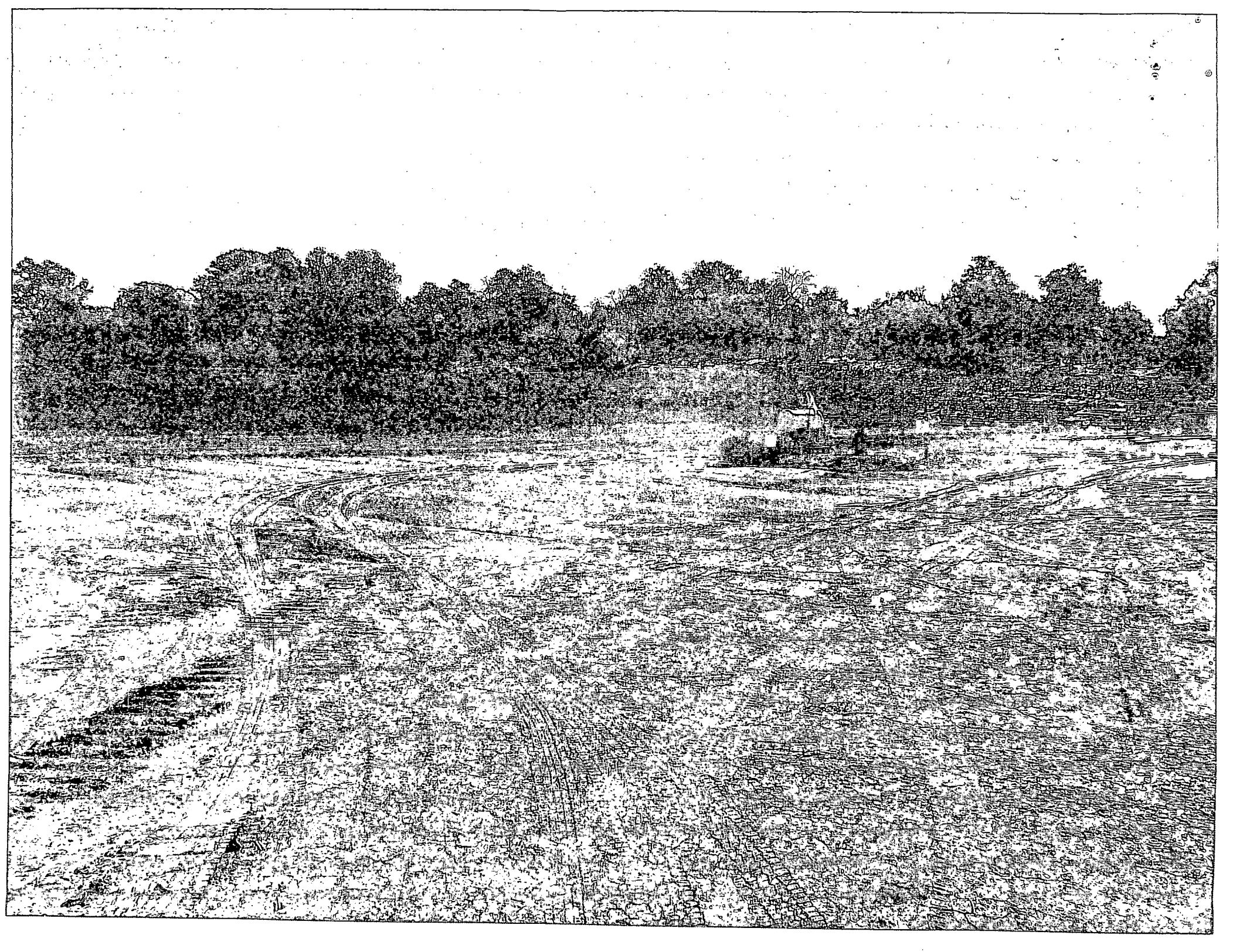
SEC.3 T-26-N R-4-W NMPM

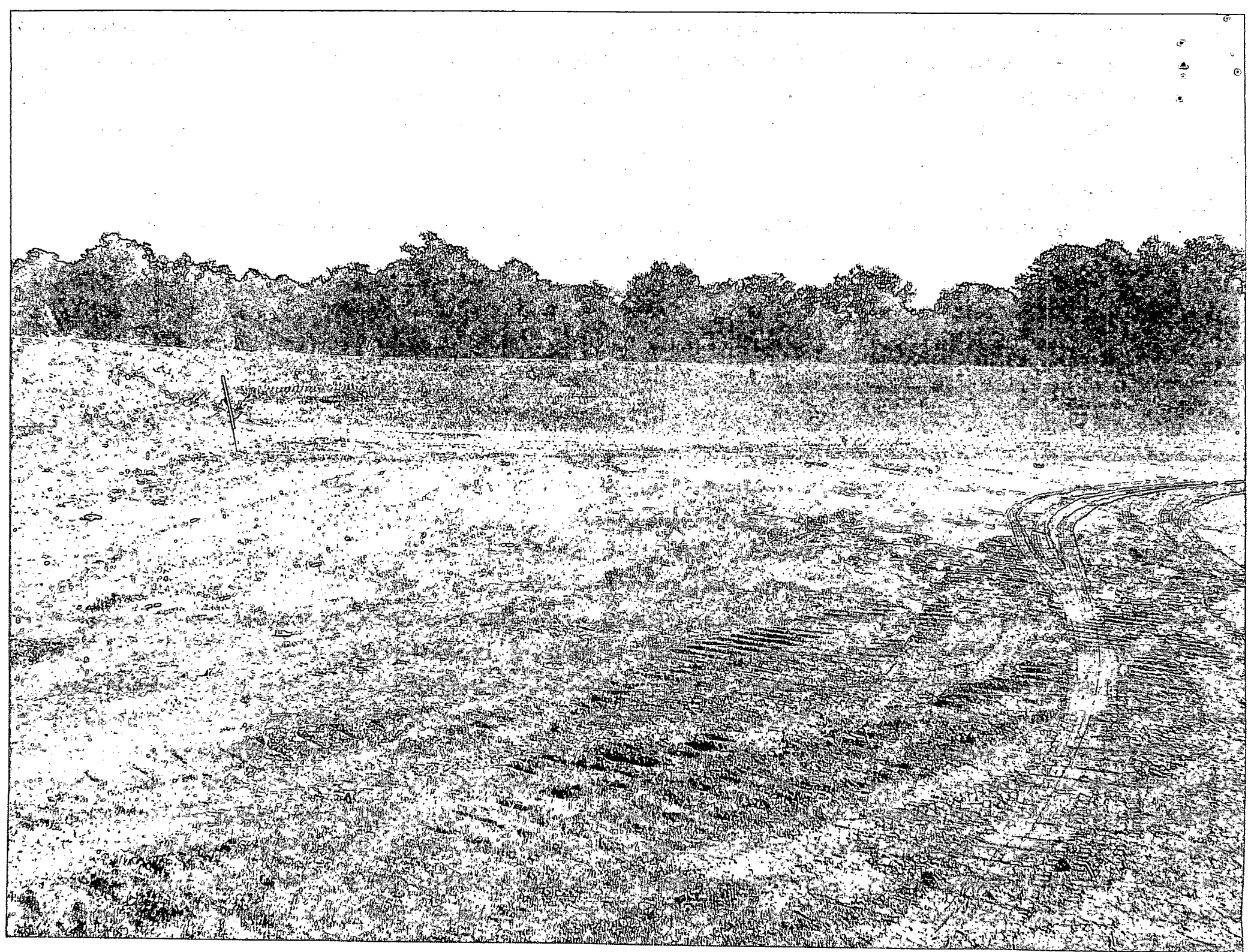
RIO ARriba COUNTY, NEW MEXICO

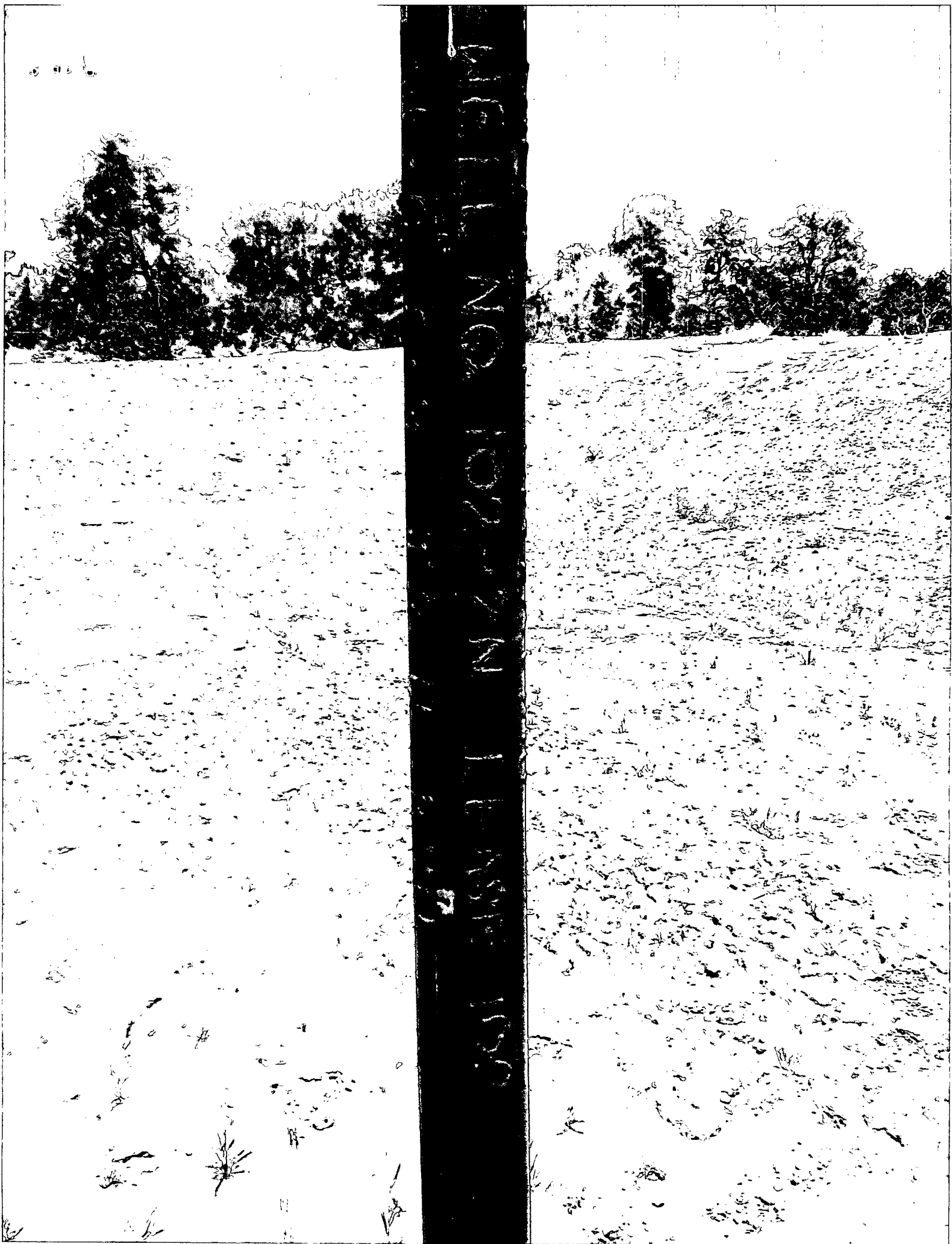
LA 7.360 31 13.1" N (NAD 83)

LONG: 107° 14' 28.8" W (NAD 83)

EMERGENCY CONTACT 505-325-0318













RECEIVED (April 2004)

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OMB No. 1004-0137

Expires: March 31, 2007

SEP 07 2012

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

Farmington Field Office Bureau of

SUBMIT IN TRIPLICATE - Other Instructions on reverse side.

1. Type of Well [ ] Oil Well [X] Gas Well [ ] Other
2. Name of Operator EnerVest Operating, LLC
3a. Address 1001 Fannin St, Suite 800 Houston, TX 77002-6707
3b. Phone No. (include area code) 713-659-3500
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 845' FNL & 1980' FWL, Sec 03 T26N R04W (UL C)

5. Lease Serial No. Jicarilla Contract 102
6. If Indian, Allottee, or Tribe Name Jicarilla Apache Tribe
7. If Unit or CA Agreement Name and/or No.
8. Well Name and No. Jicarilla 102 #7N
9. API Well No. 30-039-30068
10. Field and Pool, or Exploratory Area Blanco Mesa Verde / Basin Dakota
11. County or Parish, State Rio Arriba, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

Table with columns: TYPE OF SUBMISSION (Notice of intent, Subsequent Report, Final Abandonment Notice) and TYPE OF ACTION (Acidize, Deepen, Fracture Treat, etc.)

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

8-1 to 8-13-12: MIRU PPP Rig #22, tag and drill out cmt to PBTD of 8380'. run cased hole logs: GR/CCL/CBL. Pressure test 4 1/2" csg to 6000 psi for 30 min. Test OK. 8-08-12: Perforate Dakota w/34 0.40" holes from 8178' to 8330'. 8-10-12: MIRU frac equipment, acidize Dakota w/861 gal. 15% HCL and 60 0.875" Bio Sealers, frac w/104406# 20/40 mesh sand and 3585 bbls of slickwater. Perforate Mesa Verde w/34 0.40" holes from 6150' to 6236'. Acidize w/750 gal HCL with 51 0.875" Bio Sealers, frac w/122170# of 20/40 mesh sand, flush w/114 bbls of 3% KCL water. 8-11-12: Perforate Mesa Verde w/32 0.40" holes from 5749' to 5780'. Acidize w/750 gal 15% HCL, frac w/ 76466# 20/40 mesh sand and pumped 2401.2 bbls 70% N2 foam and 3179.4 bbls 65% N2 foam, flushed w/95 bbls 65% N2 foam @ 39.1 bpm avg flow rate. RD frac equipment. 8-11 to 8-20-12: Test Mesa Verde zones. (8-17-12: 1st delivery from Mesa Verde using green completion & test allowable C-104) 8-20-12: Drill out plug. 8-21-12: Clean out Dakota perfs. test Dakota/Mesa Verde intervals. 1st delivery from Dakota using green completion and test allowable C-104. 8-28-12: TIH w/2 3/8" 4.7# J-55 tbg, land @ 8307' KB. Released PPP Rig # 22 @ 1900 hrs.

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed) Loren Diede Title Contract Agent Signature Date September 6, 2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Title Date
Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease Office which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

ACCEPTED FOR RECORD

OPERATOR

SEP 07 2012

FARMINGTON FIELD OFFICE