

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

Form C-144
July 21, 2008

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

9585

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

Type of action: ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Modification to an existing permit
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve 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, LLC OGRID #: 143199
Address: 1001 Fannin St Ste 800 Houston, Texas 77002
Facility or well name: Jicarilla C 4E Tank #2
API Number 30-039-22298 OCD Permit Number: 9478
U/L or Qtr/Qtr M Section 24 Township 26N Range 05W County Rio Arriba
Center of Proposed Design: Latitude 36.467238 Longitude -107.316475 NAD ☐ 1927 ☒ 1983
Surface Owner ☐ Federal ☐ State ☐ Private ☒ Tribal Trust or Indian Allotment

2
☐ **Pit:** Subsection F or G of 19 15 17 11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☐ Unlined Liner type Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions L _____ x W _____ x D _____

RCVD FEB 10 '12
OIL CONS. DIV.
DIST. 3

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. 95 bbl Type of fluid Primarily produced water w/ compressor skid precipitation & incidental lubricating oil
Tank Construction material Steel w/ expanded metal cover
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other _____ electronic monitoring _____
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☒ Other _____

5
☐ **Alternative Method:**
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19 15.17 11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

- ☐ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☐ Alternate Please specify _____ 42" Hog-wire fence with 2 strands barbed-wire on top _____

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

9.

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19 15.17 NMAC for guidance

Please check a box if one or more of the following is requested, if not leave blank:

- ☐ Administrative approval(s) Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.

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	<input type="checkbox"/> Yes <input type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
- Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (<i>Applies to permanent pits</i>)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application	<input type="checkbox"/> Yes <input type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
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	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland.	<input type="checkbox"/> Yes <input type="checkbox"/> No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	
Within an unstable area.	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain	<input type="checkbox"/> Yes <input type="checkbox"/> No
- FEMA map	

11.

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: _____

12.

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the 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 NMAC
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC

and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____☐ Previously Approved Operating and Maintenance Plan API Number _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

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

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ 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 H₂S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

Proposed Closure: 19.15.17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.Type. ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System
☐ AlternativeProposed 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)

15.

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

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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

17

Siting Criteria (regarding on-site closure methods only): 19.15 17 10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the 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

18

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

19

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): Janet M Bienski Title Regulatory Assistant

Signature: Janet M Bienski Date: 2/9/12

e-mail address: jbienski@enervest.net Telephone: 713-495-1571

20.

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

OCD Representative Signature: Jonath D. Kelly Approval Date: 6/20/2012

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: 10/31/11

22.

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.

23.

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

Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: Disposal Facility Permit Number:

Disposal Facility Name: Disposal Facility Permit Number:

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

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

- ☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24.

Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure)
☒ Plot Plan (for on-site closures and temporary pits)
☒ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☒ Disposal Facility Name and Permit Number
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique
☒ Site Reclamation (Photo Documentation)

On-site Closure Location Latitude 36 467238 Longitude -107.316475 NAD ☐ 1927 ☒ 1983

25.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Janet M. Bienski Title: Regulatory Assistant

Signature: Janet M Bienski Date: 2/9/12

e-mail address: jbienski@enervest.net Telephone: 713-495-1571

All distances must be from the outer boundaries of the Section

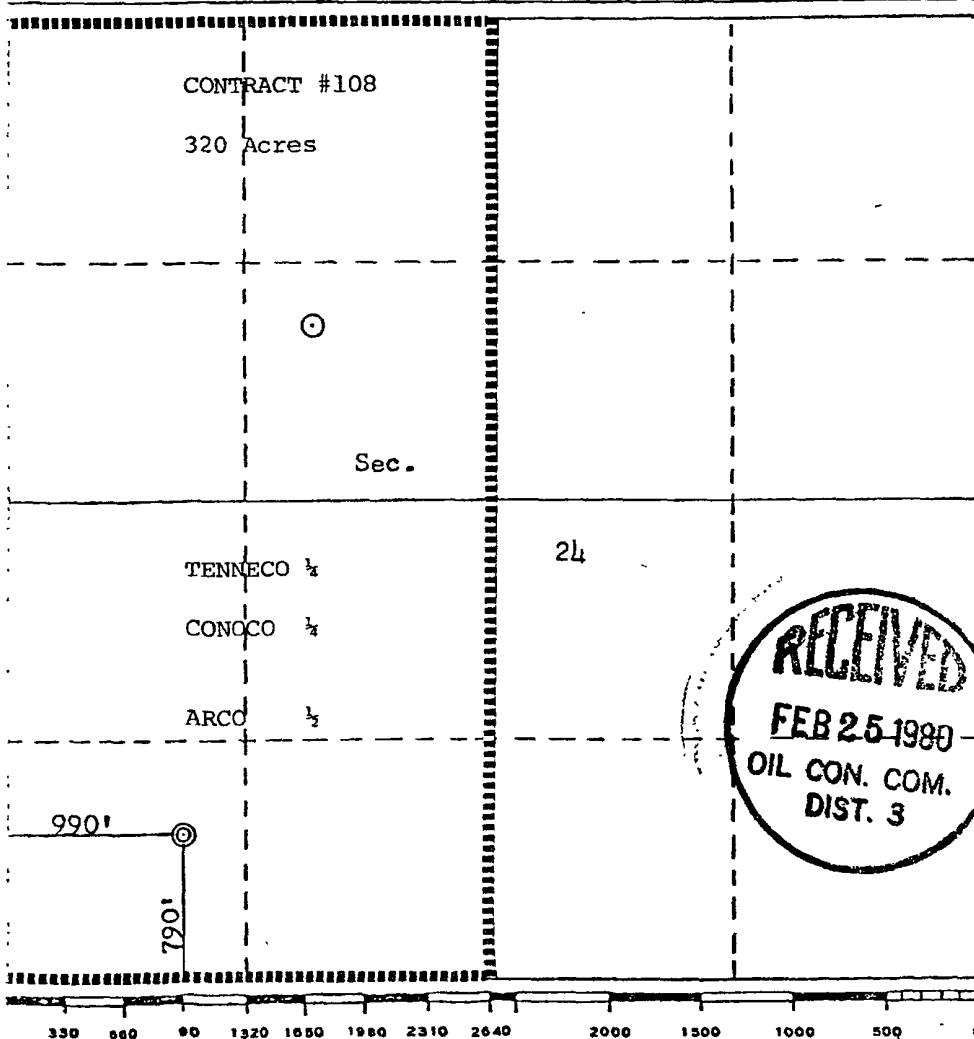
Operator TENNECO OIL COMPANY			Lease JICARILLA "C"		Well No. 4-E
Unit Letter M	Section 24	Township 26N	Range 5W	County Rio Arriba	
Actual Footage Location of Well:					
790 feet from the		South	line and	990 feet from the	West line
Ground Level Elev. 6578	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: W 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
M. L. Freeman
 Position
Staff Production Analyst
 Company
Tenneco Oil Company
 Date
December 28, 1979

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
October 26, 1979
 Registered Professional Engineer and/or Land Surveyor
Fred B. Smith
 Certificate No.
3950

Bienski, Janet

From: Young, Ronnie
Sent: Friday, October 07, 2011 8:40 AM
To: Bienski, Janet
Subject: FW: Enervest Operating Notice of Pit Closure - C3, C4, C4E, C5, C5M

From: Gardner, Wilbert
Sent: Friday, October 07, 2011 8:38 AM
To: 'brandon.powell@state.nm.us'; 'dksandoval@yahoo.com'
Cc: Ahrens, Mickey; Deal, Chester; Young, Ronnie
Subject: Enervest Operating Notice of Pit Closure

Brandon/Dixon:

Enervest Operating is planning on closing the following below grade pits starting on Thursday, October 13, 2011 at 08:00 – weather permitting.

C-3	30-039-08098
C-4	30-039-08139 <i>TKJ</i>
C-4E	30-039-22298
C-5	30-039-08160
C-5M	30-039-22315

All of the above referenced below grade pits have been sampled per state regulations and found to be in compliance for closure.

Thank you.

Lee Gardner CHMM, CSP
Sr. HSE Specialist
Enervest Operating LLC
2700 Farmington, Bldg K, Suite #1
Farmington, NM 87401
Office 505-325-0318 Ext 13
Mobile 505-320-7924
Wgardner@enervest.net

JICARILLA C 004E-DK

API# 3003922298

FEDERAL LEASE# JIC108

SW/4 SW/4 (M) S.24-T26N-R5W

Rio Arriba County (ELEV. 6,585)

ENERVEST OPERATING, LLC

LAT 36.46701 LONG 107.31624

36°
107°

PETROLEUM CRUDE OIL

FLAMMABLE

FLAMMABLE VAPORS MAY CONTAIN
HYDROGEN SULFIDE (H₂S)
IT CAN BE HARMFUL OR FATAL
CAUSE SKIN IRRITATION UPON
CONTACT OR REPEATED CONTACT

HANDLING
WEAR PROTECTIVE CLOTHING AND USE RESPIRATOR OR A GOOD BREATHING
CONTAINER. MAY USE WITH ADEQUATE VENTILATION. OPERATING
CONDITIONS CAUSE HIGH VAPOR CONCENTRATIONS OF HYDROGEN
SULFIDE. USE SUPPLIED AIR FILTER OR APPROVED
RESPIRATOR.

FOR EYES: IN CASE OF CONTACT, RINSE EYES WITH PLENTY OF WATER.

FOR SKIN: IN CASE OF CONTACT, WASH SKIN WITH SOAP AND WATER.

FOR INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GET
MEDICAL ATTENTION IMMEDIATELY.

FOR INHALATION: IF SWALLOWED, GET MEDICAL ATTENTION IMMEDIATELY.

4

HYDROGEN SULFIDE

DANGER FLAMMABLE

VAPOR HARMFUL OR FATAL
VAPOR CAN BE IRRITATING TO EYES

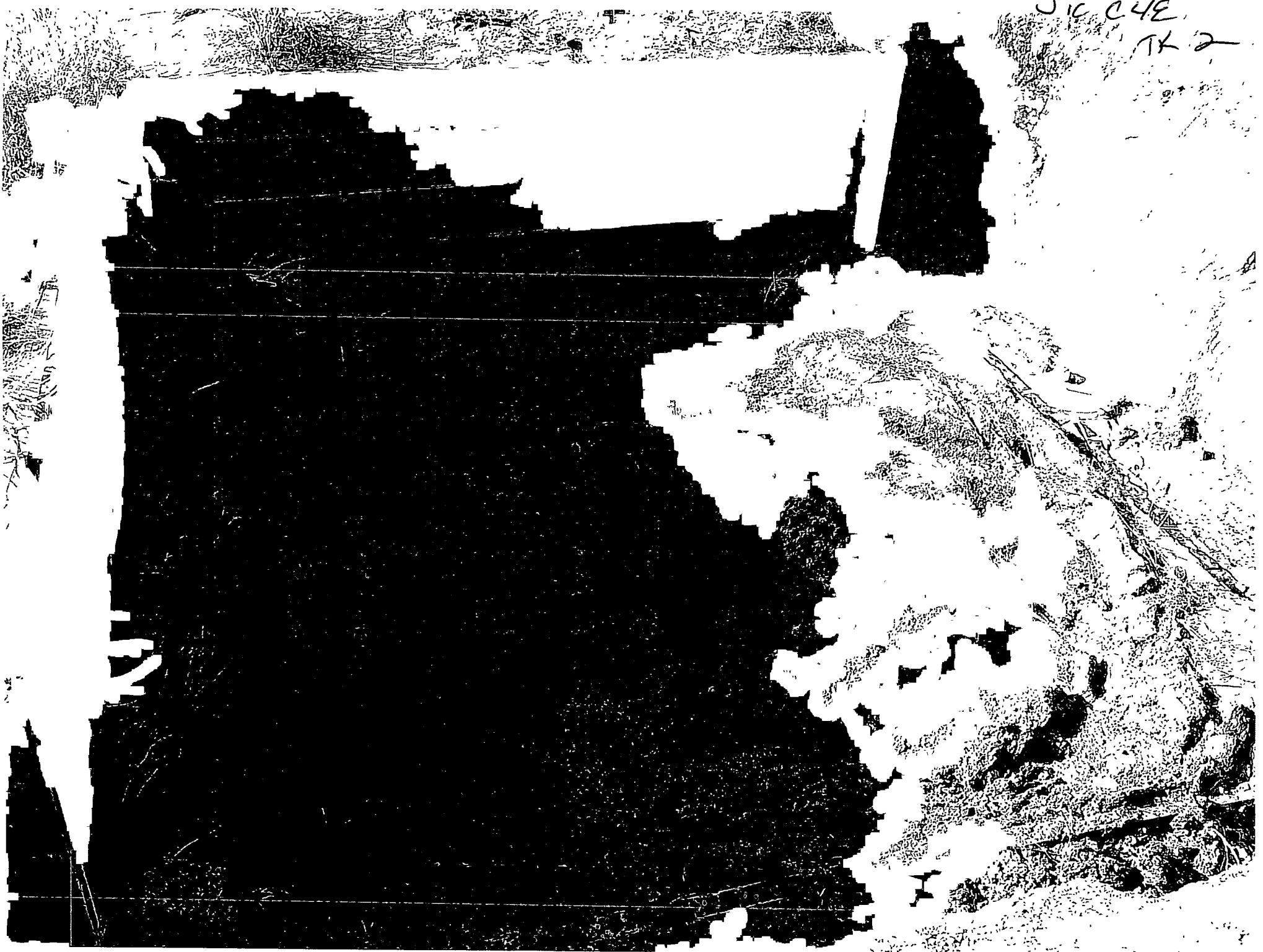
HANDLING

USE WITH ADEQUATE VENTILATION OR USE AN APPROVED RESPIRATOR
APPROVED BY PHARMACY. USE VENTILATION OR RESPIRATOR
WITH ADEQUATE FILTERS.

FOR EYES: IN CASE OF CONTACT, RINSE EYES WITH PLENTY OF WATER.
GET MEDICAL ATTENTION IMMEDIATELY.

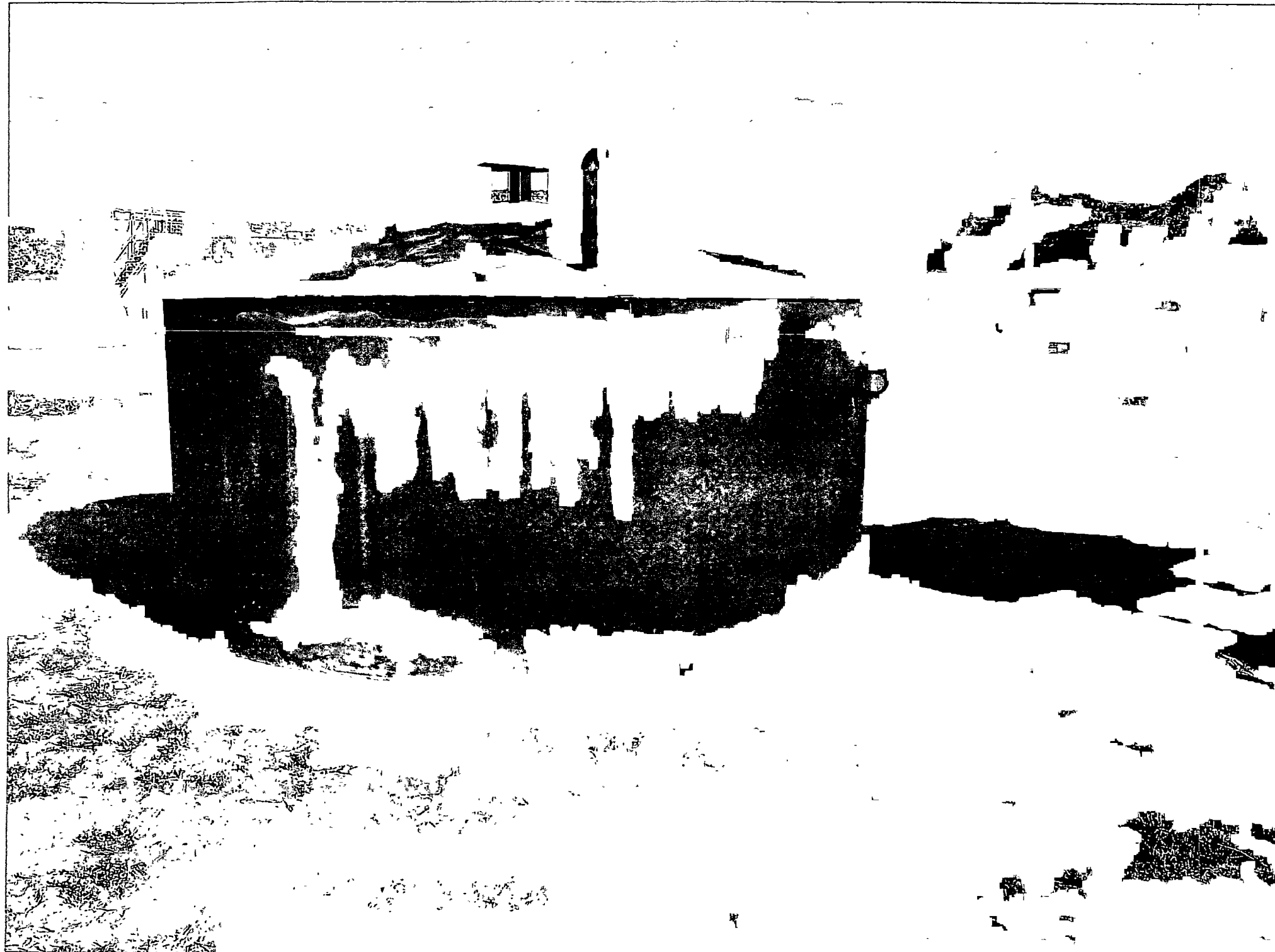
FOR INHALATION: IF SWALLOWED, DO NOT INDUCE VOMITING. GET
MEDICAL ATTENTION IMMEDIATELY. IF SWALLOWED, GET MEDICAL ATTENTION
IMMEDIATELY. IF SWALLOWED, GET MEDICAL ATTENTION IMMEDIATELY.

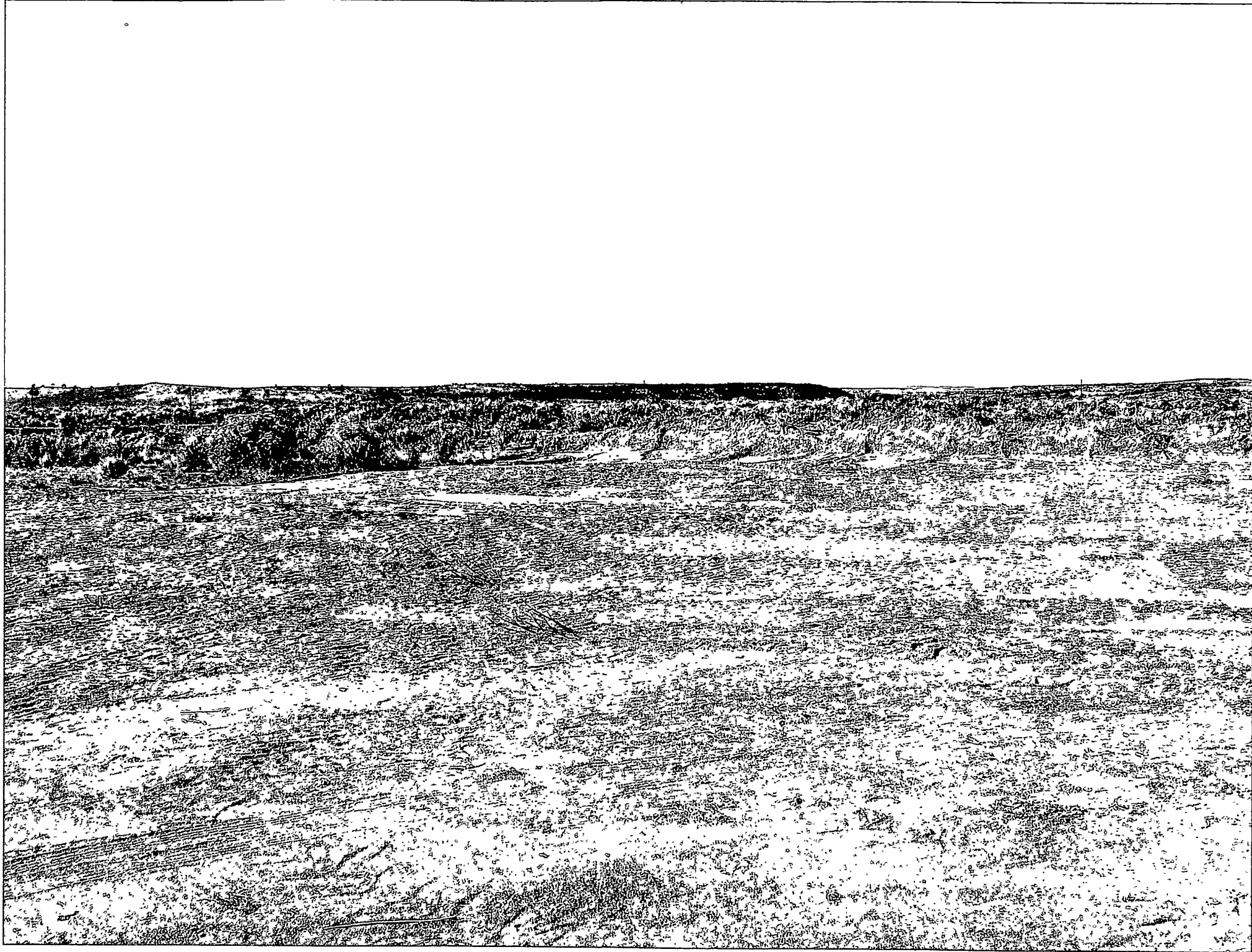
JIC C4E
TK 2











EnerVest Operating, LLC

RCVD MAR 6 '12

Below-Grade Tank Closure Report

OIL CONS. DIV.

DIST. 3

Lease & Well: Jicarilla C 4E, tank 2

API No: 30-039-22298

In accordance with Rule 19.15.17.13 NMAC, the following information describes the closure of the below-grade tank on the above well. All proper documentation regarding closure activities is being included with the C-144, closure report. This below-grade tank was constructed prior to June 16, 2008, the effective date of this rule.

The surface owner shall be notified of the closure of this below-grade tank.

Manuel Myore/Bureau of Indian Affairs was notified of the closure of this below-grade tank via U. S. Mail Registered Mail with a Return Receipt Requested on September 282, 2010.

At least a 72 hour notice will be given to the appropriate division district office, via U. S. Mail or electronic e-mail, prior to the closure of any below-grade tank.

The Aztec OCD Office was notified on October 7, 2011 via email of the proposed closure operations for this below-grade tank.

All free standing liquids will be removed prior to any other activity concerning the closure of the below-grade tank. All liquids were disposed of in a division-approved facility in a manner that the appropriate division district office approves.

All recovered liquids were disposed of at TNT Land Farm/Permit #NM-01-008. This below-grade tank was steam-cleaned with hot water and stored for future use.

Upon removal of the below-grade tank from its containment area, the surface directly below this tank will be inspected for any visible signs of leakage. If leakage is detected, a grab sample will be taken from that area. Also, a five point composite sample will be taken from where the tank was sitting. All samples will be analyzed for the following:

Components	Test Method	Limits (mg/Kg)	Sample Results
Benzene	EPA SW-846 8021B or 8260B	0.2	ND
BTEX	EPA SW-846 8021B or 8260B	50	1
TPH	EPA SW-846 418 I	100	36 1
Chlorides	EPA 300.1	250 or background, whichever is greater	10

The results of all sampling shall be reported to the division on Form C-141.

Upon removal of this below-grade tank, there was no visible evidence of any leakage. a five point composite sample was taken from where the tank was sitting. The samples were sent in for analysis and the results reported to the OCD Aztec Office on C-141 on 9/29/11. The results of all testing were within tolerance levels as established by the OCD.

Upon sampling has confirmed no leaks were evidence, the area was back filled and surrounding area restored. These below-grade tanks are on the approved pad sites and no re-seeding was performed.

Photographic evidence of this work was taken and will be submitted with our completed C-144 for the closure of this below-grade tank.



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Enervest Operating, LLC	Project #:	05123-0002
Sample ID:	Lot #1/ Plt #1 Jlc. C #4E	Date Reported:	09-28-11
Laboratory Number:	59698	Date Sampled:	09-20-11
Chain of Custody:	12599	Date Received:	09-20-11
Sample Matrix:	Soil	Date Analyzed:	09-27-11
Preservative:	Cool	Date Extracted:	09-27-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	1.0	0.9

Total BTEX 1.0

RCVD JUN 15 '12

OIL CONS. DIV.

DIST. 3


ND - Parameter not detected at the stated detection limit.

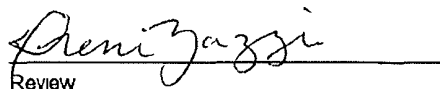
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	88.6 %
	1,4-difluorobenzene	92.4 %
	Bromochlorobenzene	89.8 %

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: Jlc. C #4E


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0927BBLK QA/QC	Date Reported:	09-28-11
Laboratory Number:	59698	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-27-11
Condition:	N/A	Analysis:	BTEX
		Dilution	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	3.4675E+006	3.4744E+006	0.2%	ND	0.1
Toluene	3.5462E+006	3.5533E+006	0.2%	ND	0.1
Ethylbenzene	3.1438E+006	3.1501E+006	0.2%	ND	0.1
p,m-Xylene	8.5492E+006	8.5664E+006	0.2%	ND	0.1
o-Xylene	2.9831E+006	2.9891E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	474	94.8%	39 - 150
Toluene	ND	500	472	94.4%	46 - 148
Ethylbenzene	ND	500	457	91.4%	32 - 160
p,m-Xylene	ND	1000	939	93.9%	46 - 148
o-Xylene	ND	500	474	94.7%	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 59698-59701, 59742, 59727-59730, 59637-59642

Analyst

Review



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


Client:	Enervest Operating, LLC	Project #:	05123-0002
Sample ID:	Lot #1 / Pit #1 Jic. C #4E	Date Reported:	09-23-11
Laboratory Number:	59698	Date Sampled:	09-20-11
Chain of Custody No:	12599	Date Received:	09-20-11
Sample Matrix:	Soil	Date Extracted:	09-21-11
Preservative:	Cool	Date Analyzed:	09-23-11
Condition:	Intact	Analysis Requested:	8015 TPH

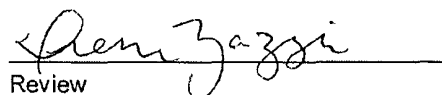
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

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: Jic. C #4E


Analyst


Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-22-11 QA/QC	Date Reported:	09-23-11
Laboratory Number:	59698	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-22-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	40808	1.001E+03	1.002E+03	0.04%	0 - 15%
Diesel Range C10 - C28	40808	1.001E+03	1.002E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	5.82	0.2
Diesel Range C10 - C28	2.31	0.1

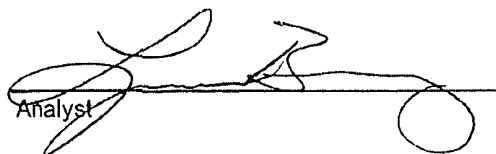
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%

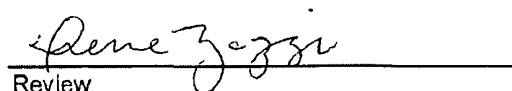
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	244	97.6%	75 - 125%
Diesel Range C10 - C28	ND	250	254	102%	75 - 125%

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: QA/QC for Samples 59698-59701, 59713-59715.


Analyst


Review



EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

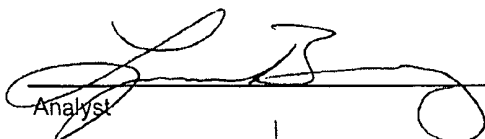
Client:	Enervest Operating, LLC	Project #:	05123-0002
Sample ID:	Lot #1/Pit #1 Jic. C #4E	Date Reported:	09/26/11
Laboratory Number:	59698	Date Sampled:	09/20/11
Chain of Custody No:	12599	Date Received:	09/20/11
Sample Matrix:	Soil	Date Extracted:	09/23/11
Preservative:	Cool	Date Analyzed:	09/23/11
Condition:	Intact	Analysis Needed:	TPH-418.1


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	36.1	10.7

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: Jic. C#4E


Analyst


Review



**EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS
QUALITY ASSURANCE REPORT**

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	09/26/11
Laboratory Number:	09-23-TPH.QA/QC 59698	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	09/23/11
Preservative:	N/A	Date Extracted:	09/23/11
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
	08/23/11	09/23/11	1,670	1,720	3.0%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	10.7

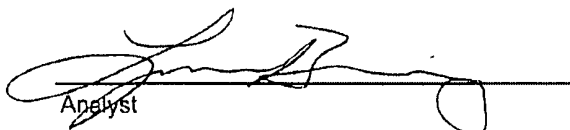
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	36.1	35.5	1.7%	+/- 30%

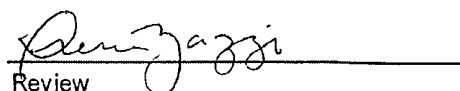
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	36.1	2,000	1,810	88.9%	80 - 120%

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: QA/QC for Samples 59698-59701.


Analyst


Review



Chloride

Client:	Enervest Operating, LLC	Project #:	05123-0002
Sample ID:	Lot #1/ Pit #1 Jic. C #4E	Date Reported:	09/22/11
Lab ID#:	59698	Date Sampled:	09/20/11
Sample Matrix:	Soil	Date Received:	09/20/11
Preservative:	Cool	Date Analyzed:	09/22/11
Condition:	Intact	Chain of Custody:	12599

Parameter	Concentration (mg/Kg)
Total Chloride	10

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: Jic. C#4E

Analyst

Review

CHAIN OF CUSTODY RECORD

12599

Client: Enervest Operating, LLC			Project Name / Location: Jic. C#4E			ANALYSIS / PARAMETERS																
Client Address: 3700 Farmington Ave., Bldg. K, Suite #1 Farmington, NM 87401			Sampler Name: Chester Deal			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	Benzene	GRO/DRO Comb.	Sample Cool	Sample Intact			
Client Phone No.: (505) 325-0318 Phone (505) 325-0338 FAX			Client No.: 05123-0002																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	Benzene	GRO/DRO Comb.	Sample Cool	Sample Intact
Lot #1 / Pit #1 Jic. C#4E	9/20/11	10:00 AM	59698	Soil Solid	1 ea. 4oz																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
				Soil Solid	Sludge Aqueous																	
Relinquished by: (Signature) Chester L. Deal				Date 9/20/11	Time 3:32	Received by: (Signature) [Signature]				Date 9/20/11	Time 3:32											
Relinquished by: (Signature)						Received by: (Signature)																
Relinquished by: (Signature)						Received by: (Signature)																
Combined 5pt. Sample email results to cdeal@enervest.net												 envirotech Analytical Laboratory 5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com										

District I
1625 N French Dr, Hobbs, NM 88240
District II
811 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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19 15 29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	EnerVest Operating, LLC	Contact	Ronnie L. Young
Address	1001 Fannin Street, Ste. 800, Houston, Tx 77002	Telephone No.	713-495-6530
Facility Name	Jicarilla C #4E	Facility Type	Below Grade Tank Closure

Surface Owner	Jicarilla Apache Nation	Mineral Owner	API No. 30-039-22298
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	24	26 N	05 W	790	South	990	West	Rio Arriba

Latitude 36.466852 Longitude 107.316341

NATURE OF RELEASE

Type of Release	None	Volume of Release	Volume Recovered
Source of Release		Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?		Date and Hour	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

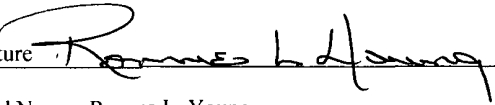
Describe Cause of Problem and Remedial Action Taken *

No release detected - Closure of below-grade tank

RCVD JUN 18 '12
OIL CONS. DIV.
DIST. 3

Describe Area Affected and Cleanup Action Taken.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature 	OIL CONSERVATION DIVISION		
Printed Name: Ronnie L. Young	Approved by Environmental Specialist.		
Title Regulatory Manager	Approval Date:	Expiration Date	
E-mail Address ryoung@enervest.net	Conditions of Approval		Attached <input type="checkbox"/>
Date 06/15/2012	Phone: 713-495-6530		

* Attach Additional Sheets If Necessary