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 Department Oil Conservation Division

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

Form C-144

Revised June 6, 2013

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			
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.			
Operator: FNERVEST DPERSTING L.L.C. OGRID#: 148199			
Operator: <u>ENERVEST</u> <u>OPERATING</u> , L.L.C. OGRID#: 143199  Address: 1001 FANNIN ST., STE #800 HOUSTON, TX 7700Z			
Facility or well name: JICARILLA GAS COM C # 1E			
API Number: 30-039-22289 OCD Permit Number:			
U/L or Qtr/Qtr F Section 32 Township 26N Range 5W County: RID ARRIBA			
Center of Proposed Design: Latitude <u>36.44633</u> Longitude <u>-/07.38603</u> NAD: □1927 ☑ 1983			
Surface Owner: Federal State Private Tribal Trust or Indian Allotment			
Pit: Subsection F, G or J of 19.15.17.11 NMAC   RCVD SEP 6 '13 OIL CONS. DIV.     Temporary: Drilling Workover   DIST. 3     Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no     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			
3.     Below-grade tank: Subsection I of 19.15.17.11 NMAC   Volume:			
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.  Fancing: Subsection D of 10.15.17.11 NIMAC (Applies to a superior to the s			
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			

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
X Screen □ Netting □ Other □ Other □ 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. X	
Variances 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:	
<ul> <li>□ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.</li> <li>□ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul>	
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 accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
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 X No
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
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. ( <b>Does not apply to below grade tanks</b> )  - 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
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	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.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
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

Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
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	· 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 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	☐ Yes ☐ No
Within 300 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
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 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	☐ Yes ☐ No
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	☐ 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
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N	MAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc	
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 ☐ 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. and 19.15.17.13 NMAC	15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	· · · · · · · · · · · · · · · · · · ·
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 doc 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. 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:	15.17.9 NMAC

Permianent 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
### 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    Lak 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	
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 F 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	Fluid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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 sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I 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	☐ Yes ☐ No ☐ 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	☐ 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 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	☐ 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 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	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; 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 the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	Yes No
Within a 100-year floodplain. FEMA map	Yes 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 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. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. 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 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 Site Reclamation 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	11 NMAC 15.17.11 NMAC not be achieved)
Operator Application Certification:	3 2013
Thereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address:	
18	
18.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
18.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date:	
OCD Approval: Permit Application (including closure plan) (at Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 10/	
18.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date:	the closure report.
OCD Approval: Permit Application (including closure plan) (Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 10/  Title: OCD Permit Number:  OCD Permit Number:  OCD Permit Number:  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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date: 7/29/1	the closure report.
OCD Approval: Permit Application (including closure plan) (a) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 10/  Title: OCD Permit Number:  OCD Permit Number:  OCD Permit Number:  OCD Permit Number:  Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date: 7/29/1	the closure report.
OCD Approval:   Permit Application (including closure plan) (A Closure Plan (only)   OCD Conditions (see attachment)  OCD Representative Signature:   Approval Date:   /(10/)  Title:   OCD Permit Number:   OCD Permit Number:    OCD Permit Number:   OCD Permit Number:    OCD Permit Numbe	the closure report. complete this
OCD Approval:   Permit Application (including closure plan)   Closure Plan (only)   OCD Conditions (see attachment)  OCD Representative Signature:   Approval Date:   // 10/  Title:   OCD Permit Number:   Approval Date:   // 10/    OCD Permit Number:   OCD Permit Number:	the closure report. complete this
OCD Approval:   Permit Application (including closure plan)   Closure Plan (only)   OCD Conditions (see attachment)  OCD Representative Signature:   Approval Date:   /(D/)  Title:   OCD Permit Number:	the closure report. complete this
OCD Approval:   Permit Application (including closure plan)   Closure Plan (only)   OCD Conditions (see attachment)  OCD Representative Signature:   Approval Date:   / (D/)  Title:   OCD Permit Number:   Approval Date:   / (D/)  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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.   Closure Completion Date:   7 / 29 / / (20)  Waste Excavation and Removal   On-Site Closure Method   Alternative Closure Method   Waste Removal (Closed-lo If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please immark in the box, that the documents are attached.   Proof of Closure 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 (if applicable)   Waste Material Sampling Analytical Results (required for on-site closure)	the closure report. complete this
OCD Approval:   Permit Application (including closure plan)   Closure Plan (only)   OCD Conditions (see attachment)  OCD Representative Signature:   Approval Date:   /(O/O)  Title:   OCD Permit Number:   Approval Date:   /(O/O)  Title:   OCD Permit Number:   OCD Permit Number:      OCD Permit Number:   OCD Permit Number:	the closure report. complete this
OCD Approval:   Permit Application (including closure plan)   Closure Plan (only)   OCD Conditions (see attachment)  OCD Representative Signature:   Approval Date:   (10)  Title:   OCD Permit Number:   OCD Permit Number:    Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.    Closure Completion Date:   7/29/1/  20.  Closure Method:   On-Site Closure Method   Alternative Closure Method   Waste Removal (Closed-lo If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please immark 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 (if applicable)   Disposal Facility Name and Permit Number	the closure report. complete this  sop systems only)  dicate, by a check

Operator Closure	Certification:			
	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 certif	belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.			
Name (Print):	BANT THEVINO	Title:	REGULATORY ANALYST	
Signature:	35	Date:	9/9/13	
e-mail address:	BTROVIND PENERVEST. NET	Telephone:	713-659-3500	
	1			

Committee 111

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Danie Kath

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

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

	Pit, Closed-Loop System, Below-Grade Tank, or RCVD AUG 21'13			
	Proposed Alternative Method Permit or Closure Plan Application DIST 3			
	DIST. 3			
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 hability 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 _CDX Gas LLC OGRID # 222374			
	Address2700 Farmington Ave, Building K, Suite #1			
i	Facility or well nameJicarilla Gas Com C #001E			
	API Number:30-039-22089OCD Permit Number			
	U/L or Qtr/QtrF Section32 Township26N Range5W County:Rio Arriba			
=	=Center of Proposed Design Latitude 36-44633 Longitude 107-38603 NAD 1927 2-1983			
	Surface Owner Tederal State Private Tribal Trust or Indian Allotment			
	Pit: Subsection F or G of 19 15 17 11 NMAC RCVD SEP 12 '08			
	Permanent- Emergency - Cavitation - P&A DIST. 3			
☐ Lined ☐ Unlined Liner type Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other				
	☐ String-Reinforced			
	Liner Seams			
เ โ	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 Thicknessmil LLDPE HDPE PVC Other  Liner Seams Welded Factory Other			
Į	Liner Seams   weided   Factory   Other			
	4   ☑ Below-grade tank: Subsection I of 19 15 17 11 NMAC			
1	Volume			
-	Tank Construction materialSteel			
	Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off			
	☐ Visible sidewalls and liner ☑ Visible sidewalls only ☑ Other _See closure plan			
Į	Liner type Thicknessmil  HDPE PVC Other Below grade tank to be closed per new rule			
	5.			
	Alternative Method:			
- 1	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)  Chairl 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_Four foot hog wire		
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)		
8 Signs: Subsection C of 19 15 17 11 NMAC  ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  ☐ Signed in compliance with 19 15 3 103 NMAC		
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s). Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval  Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval		
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 accommentations of accommendations of accommendations of accommendations of accommendations. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19:15:17:10 NMAC for guidance. Siting criteria does not apply to dr	opriate district—— approval.	
Above-grade tanks associated with a closed-loop system.  Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank  NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes ☑ No	
- Within-300-feet-of-a-continuously-flowing-watercourse, or-200-feet-of-any-other-significant-watercourse-or-lakebed, sinkhole, or-playa-lake (measured from the ordinary high-water mark)  - Topographic map, Visual inspection (certification) of the proposed site	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	☐ Yes ⊠ No ☐ NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits)  - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☑ No ☐ NA	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application  - NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site	☐ Yes 🛭 No	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No	
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ⊠ No	
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ No	
Within an unstable area  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society; Topographic map	☐ Yes ⊠ No	
Within a 100-year floodplain - FEMA map	☐ Yes 🖾 No	

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
# attached.    Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17.9 NMAC   Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15.17 13 NMAC
Previously Approved Design (attach copy of design) API Number or Permit Number.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC  Design Plan - based upon the appropriate requirements of 19.15 17 11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17 9 NMAC
and 19 15 17 13 NMAC
Previously Approved Design (attach copy of design) API Number
Previously Approved Operating and Maintenance Plan API Number(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached:
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19 15 17 9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17 10 NMAC ☐ Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19 15 17 11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC  — Liner-Specifications and Compatibility-Assessment - based upon 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
☐ 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
Oil Field Waste Stream Characterization Monitoring and Inspection Plan
☐ Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19 15.17 9 NMAC and 19.15.17 13 NMAC
Proposed Closure: 19 15.17 13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
☐ Alternative Proposed Closure Method. ☑ Waste Excavation and Removal
<ul> <li>☐ Waste Removal (Closed-loop systems only)</li> <li>☐ On-site Closure Method (Only for temporary pits and closed-loop systems)</li> </ul>
☐ In-place Burnal ☐ On-site Trench Burnal
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19 15.17 13 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15.17.13 NMAC
<ul> <li>✓ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>✓ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC</li> </ul>
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17.13 NMAC

	Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 15 17 13.D NMAC) Instructions: Please indentify 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) \( \sumsymbol{\substack} \) 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	C	
	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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate disting considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be	
	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	Yes No	
	- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image  Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM 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	Yes - 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		
	Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
	Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No	
	Within an unstable area  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources; USGS, NM Geological Society; Topographic map	☐ Yes ☐ No	
	Within a 100-year floodplain - FEMA map	☐ Yes ☐ No	
	On-Site Closure Plan Checklist: (19 15.17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  String Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC	an. Please indicate,	
	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 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		
	<ul> <li>□ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann</li> <li>□ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC</li> <li>□ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC</li> <li>□ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC</li> </ul>	ot be achieved)	

Operator Application Certification:			
I herebs certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief			
Name (Print)Lee Gardner,			
Signature Date 8-28-58			
e-mail addresslee gardner@cdxgas com Telephone505-324-5427			
OCD Approval: Permit Application (including closure plan)			
OCD Representative Signature:			
Title: OCD Permit Number:			
11. 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: 8-13-2917			
Closure Method:  Waste Excavation and Removal Con-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			
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (required for on-site closure)  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure Location Latitude  Longitude  NAD 1927 1983			
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) WILBERT L GARDNER Title: JR HSE SPECIALIST			
Signature WMMX & DewlMM Date 8-14-2013			
e-mail address NGARONER A CINERVEST, NET Telephone 505 - 325 -0318			

#### EnerVest Operating, LLC (EV)

#### BELOW-GRADE TANK CLOSURE PLAN

#### Rule 19.15.17.13

Well Name – Jicarilla 155 Gas Com –C1E Separator Pit API # 30-039-22089 Location UL- F, Sec 32, T-26N, R-5W Lat: N 36.44633 Lat W -107. 386030

Before June 15, 2013, EV shall close, retrofit, or replace an existing below-grade tank that has not demonstrated integrity.

EV shall close a below-grade tank within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.

A. EV shall close an existing below-grade tank that does not meet the requirements of Subsection I, paragraphs (1) through (4), of 19.15.17.11 NMAC if not retrofitted to comply with said requirements prior to any sale or change of operator to 19.15.9.9 NMAC.

Any below-grade tank installed prior to June 16, 2008 that is single walled and where any portion of the tank sidewall is below the ground surface and not visible shall equip or retrofit the below-grade tank to comply with paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, or close it, within 5 years after June 16, 2008.

Within 60 days of cessation of the permitted below-grade tanks operation or as required by Subsection B of 19.15.17.17 NMAC, EV shall close the below-grade tank in accordance with a closure plan that the appropriate division district office approves.

#### Below grade tank was removed on or about July 29, 2013

B. Prior to implementing any closure operations EV shall research county tax records to determine the name and address of the surface owner of the properties involved. EV shall notify this surface owner via Certified U.S. Mail, return receipt requested, of their intent to close said below-grade tank.

Upon determination, EV will notify the appropriate district office verbally and in writing at least 72 hours but not more than one week prior to beginning work. Such notice shall contain at a minimum the following:

Operators Name
Unit letter, Section, Township, & Range of well
Well name and well number
API Number of well

Enervest Operating failed to give the required notifications due to a communication breakdown. Corrective action has been taken to prevent further occurrences. See attached letter of explanation.

- C. Within 60 days of completion of closure operations, EV will file Form C-144, with attachments, outlining the detailed operations of the closing operations. Such attachments shall include, but not limited to, proof of surface owner and division notifications, confirmation of sampling analysis, disposal facility names and permit numbers, soil backfilling and cover installation, re-vegetation application rates and seeding techniques, and photo documentations.
- D. All free standing liquids and sludge will be removed at the start of the below-grade tank closure process from the below-grade tank and disposed of in one of the below division-approved facility as indicated below:

TNT Land Farm Permit # NM-01-0008 Liquids & Sludge Environtech Land Farm Permit # NM-01-0011 Solids AguaMoss Permit # 247130 Liquids

EV will obtain prior approval from the division to dispose, recycle, reuse, or reclaim the below-grade tanks and provide documentation of the final disposition of the below-grade tank in the closure report.

All material in the below grade tank was removed and disposed of at the T-N-T Land Farm (#NM-01-008). The interior of the tank was steam cleaned prior to removal. The tank was transported to the Enervest Jicarilla yard where it was inspected and recoated. The tank will be utilized at another location in the future.

Existing liners that are removed as a result of closure will be wiped cleaned and disposed of at a solid waste facility listed below in compliance with Subparagraph (M) of Paragraph (I) of Subsection C 19.15.35.8 NMAC..

San Juan Regional Landfill Permit # SWM 052426 or Special Waster Permit # SWM052433 "sp"

If there is any on-site equipment associated with a below grade tank, EV shall remove the equipment, unless the equipment is required for some other purpose.

Upon removal of the below-grade tank, EV will take, at a minimum, a five point composite sample from where the tank was sitting. EV shall collect individual grab samples will be taken from any area that is wet, discolored or showing other evidence of a release. All samples will be analyzed for the following:

Constituent	Method	Groundwater 51-100 FT	Test Results
		10,000	67.1
Chloride	EPA 300.0	mg/kg	mg/kg
	EPA SW-846		476
TPH	Method 418.1	2,500 mg/kg	mg/kg
	EPA SW-846		
	Method 8021B		Non
BTEX	or8260B	50 mg/kg	Detect
	EPA -SW-846		
	Method 8021B or		Non
Benzene	8015M	10 mg/kg	Detect
	EPA SW-846		Non-
GRO/DRO	Method 8015B	1,000 mg/kg	Detect

The sample was analyzed by Envirotech Analytical Laboratory in Aztec NM. See attached laboratory report.

EV will insure that the results of all sampling shall be reported to the division on approved form C-141. EV understands that the division may require additional delineation upon review of the results.

If sampling demonstrates that concentrations specified above have NOT been exceeded, or that a release has NOT occurred, EV will backfill the excavation with compacted, non-waste containing, earthen material, construct a division prescribed soil cover, and recontour and re-vegetate the site. The division prescribed soil cover, recontouring, and re-vegetation shall comply with 19.15.17.13.

The excavation was back filled by Costilla Oil Field Services utilizing soil that was already on location. The location was contoured to match the existing terrain.

If EV or the division determines that a release has occurred, EV shall fully comply with 19.15.29 NMAC and 19.15.30 NMAC as appropriate.

#### No release was observed. See the attached C-141 for details

E. Once EV has closed a below-grade tank, we shall reclaim the site to a safe and stable condition that blends with the surrounding undisturbed area. When possible, EV will restore the impacted surface area to the condition that existed prior to oil and gas operations by the placement of soil cover.

If the closed area is within the confines of the pad location EV will blend the site to match the pad location as much as possible. Such activities shall prevent erosion, protect fresh water, human health and the environment. EV will obtain written agreement from the surface owner for any alternate re-vegetation proposals and submit to the division for final approval.

The soil cover design will be consistent with the requirements of 19.15.17.13(H)(1) and (3). The soil cover will consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and prevent ponding of water and erosion of the cover material.

EV will seed the disturbed areas the first growing season after closing the below grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) 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 continued until successful vegetative growth occurs. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

EV shall notify the division when it has seeded or planted and when it successfully achieves re-vegetation.



August 14, 2013

On or about August 1, 2013, Enervest Operating closed the below grade tank excavation on the Lease # 155 Jicarilla Gas Com C-1E (Separator) well pad (API# 30-039-22089) located at UL-F, Section 32, Township 26 North, Range 5 West N.M.P.M without the required 72 hour notice to the State of New Mexico.

This over site was due to a communication breakdown within Enervest. To prevent this error from occurring in the future Enervest, has established an internal tracking system for below grade tank excavation work. In addition, no back filling of an excavation can occur until the Senior HSE Specialist assigned to the Farmington NM office has given written authorization to the field coordinator oversee contractor operations.

Prior to closure a five point composite sample was submit for laboratory analysis. The sample did meet the criteria for closure. Attached is a copy of the sample results.

Thank you.

Wilbert L Gardner CHMM, CSP

Sr HSE Specialist

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District IU 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**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Form C-141 Revised August 8, 2011

	Release Notifi	icatio	n and Co	orrective A	ction										
			OPERAT	OR	] Initial	Report	$x\Box$	Final Report							
Name of Company Enervest Ope	erating		Contact Lee Gardner												
Address 2700 Farmington Ave			Telephone No. 505-325-0318												
Facility Name Jicarilla 155 Gas	Com C-1E Separator Pit		Facility Type Oil & Gas Production												
Surface Owner Jicarilla Tribe	Mineral	Owner	Jicarilla Tril			API No	30-039-	22089							
Surface o when treatment in the						111 1 1 10									
Litte Han Castine Tannahin			ON OF RELEASE  orth/South Line   Feet from the   East/West Line   County												
Unit Letter Section Township  F 32 26N	Range   Feet from the 5W	Noru	Line	reet from the	East/ W	est Line	County Rio Arril	Rio Arriba							
Latitude_N. 36.44633LongitudeW -107.38603															
	NA	TURE	OF REL												
Type of Release - None				Release - None		Volume R			-						
Source of Release Was Immediate Notice Given?			If YES, To	lour of Occurrence Whom?	e	Date and I	Hour of D	iscovery							
1	Yes X No No	t	11 123, 10	whom:											
By Whom?			Date and I-	lour		<del></del>									
Was a Watercourse Reached?			If YES, Vo	olume Impacting t	the Water	course.									
1	☐ Yes X☐ No														
If a Watercourse was Impacted, Des	cribe Fully.*														
Describe Cause of Problem and Ren Below grade tank excavation closur for analysis.  The results are: Benzene – Non Detect (EPA Methor BTEX – Non Detect mg/kg (EPA Methor GRO/DRO –Non Detect /kg (EPA Methor Total Petroleum Hydrocarbons – 47 Chloride –67.1 mg/kg (EPA Methor Describe Area Affected and Cleanum No release was detected by analysis	e A five point composite sold 8021) Method 8021) 6015) 6 mg/kg (EPA Method 418. od 300.0) p Action Taken.*	1)													
I hereby certify that the information regulations all operators are required public health or the environment. The should their operations have failed to or the environment. In addition, NN federal, state, or local laws and/or results.	I to report and/or file certain he acceptance of a C-141 reposed to adequately investigate and IOCD acceptance of a C-14	release port by the remedia	notifications a ne NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a thr	ctive action eport" do eat to gro	ons for rele es not reli- und water,	ases whic eve the op surface v	ch may er perator of water, hu	ndanger f liability ıman health						
Signature: Lee Lench	ns			OIL CON		ATION	DIVISI	<u>ON</u>							
Printed Name: Lee Gardner			Approved by	Environmental S	pecialist:										
Title: Senior HSE Specialist			Approval Date:		E	xpiration [	Date:								
E-mail Address: wgardner@ enerve	st.net		Conditions of		ed 🗌										
Date: 8-14-2013 Phone: 505-325-0318															



#### **Analytical Report**

#### **Report Summary**

Client: Enervest Operating

Chain Of Custody Number: 15808

Samples Received: 8/9/2013 3:23:00PM

Job Number: 05123-0002 Work Order: P308025

Project Name/Location: 155 GC-C1E Separator

Pit

Entire Report Reviewed By:

Date:

8/14/13

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 8/13/13 2:33 pm

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





Project Name:

155 GC-C1E Separator Pit

2700 Farmington Ave. Farmington NM, 87401

Project Number: Project Manager: 05123-0002 W Gardner **Reported:** 14-Aug-13 07:39

#### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
155 GC-1E JEP Pit	P308025-01A	Soil	08/09/13	08/09/13	Glass Jar, 4 oz.





Project Name:

155 GC-C1E Separator Pit

2700 Farmington Ave. Farmington NM, 87401

Project Number: Project Manager: 05123-0002 W Gardner

Reported:

14-Aug-13 07:39

#### 155 GC-1E JEP Pit P308025-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
Surrogate: Bromochlorobenzene		81.7 %	80-	120	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %	80-	120	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
Surrogate: Fluorobenzene		96.1 %	80-	120	1333005	12-Aug-13	12-Aug-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1333004	12-Aug-13	12-Aug-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	4.99	mg/kg	1	1333004	12-Aug-13	12-Aug-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	4.99	mg/kg	1	1333004	12-Aug-13	12-Aug-13	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1	<del></del>								
Total Petroleum Hydrocarbons	476	20.0	mg/kg	1	1333007	12-Aug-13	12-Aug-13	EPA 418.1	
Cation/Anion Analysis									
Chloride	67.1	10.0	mg/kg	1	1333003	12-Aug-13	12-Aug-13	EPA 300.0	

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301





Project Name:

155 GC-C1E Separator Pit

2700 Farmington Ave. Farmington NM, 87401 Project Number: Project Manager: 05123-0002 W Gardner

Reported: 14-Aug-13 07:39

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1333005 - Purge and Trap EPA 5030A										
Blank (1333005-BLK1)				Prepared &	Analyzed	12-Aug- <u>1</u> 3				
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	**							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	н							
Total BTEX	ND	0.05	"							
Surrogate: Bromochlorobenzene	40.5		ug/L	50.0		81.0	80-120			
Surrogate: 1,4-Difluorobenzene	47.2		"	50.0		94.3	80-120			
Surrogate: Fluorohenzene	47.3		"	50.0		94.6	80-120			
Duplicate (1333005-DUP1)	Source: P308027-02			Prepared &	: Analyzed:	: 12-Aug-13				_
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	**		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	II .		ND				30	
Surrogate: Bromochlorobenzene	40.2		ug/L	50.0		80.4	80-120			
Surrogate: 1,4-Difluorohenzene	47.2		. "	50.0		94.4	80-120 •			
Surrogate: Fluorobenzene	47.4		"	50.0		94.8	80-120			
Matrix Spike (1333005-MS1)	Sou	rce: P308027-	02	Prepared &	Analyzed	12-Aug-13				
Benzene	2.31	0.05	mg/kg	2.50	ND	92.3	39-150			
Γoluene	2.25	0.05	"	2.50	ND	90.2	46-148			
Ethylbenzene	2.17	0.05		2.50	ND	- 87.0	32-160			
o,m-Xylene	3.93	0.05	"	5.00	ND	78.5	46-148			
-Xylene	2.17	0.05	н	2.50	ND	87.0	46-148			
Surrogate: Bromochlorobenzene	40.1	<u> </u>	ug/L	50.0		80.2	80-120			
Surrogate: 1,4-Difluorobenzene	47.0		"	50.0		94.1	80-120			
Surrogate: Fluorobenzene	47.6		"	50.0		95.1	80-120			





Project Name:

155 GC-C1E Separator Pit

2700 Farmington Ave. Farmington NM, 87401

Project Number:

05123-0002

Reported:

Project Manager:

W Gardner

14-Aug-13 07:39

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting			Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1333004 - GRO/DRO Extraction	on EPA 3550C									
Blank (1333004-BLK1)				Prepared 8	k Analyzed:	12-Aug-13	3			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.00	н							
GRO and DRO Combined Fractions	ND	5.00	"							
Duplicate (1333004-DUP1)	Source	e: P308027-	-02	Prepared &	k Analyzed:	12-Aug-13	3			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Diesel Range Organics (C10-C28)	ND	4.99	*		ND				30	
Matrix Spike (1333004-MS1)	Source	e: P308027-	02	Prepared &	k Analyzed:	12-Aug-13	3			
Gasoline Range Organics (C6-C10)	245		mg/L	250	0.69	97.7	75-125			
Diesel Range Organics (C10-C28)	274		11	250	0.75	109	75-125			



Project Name:

155 GC-C1E Separator Pit

2700 Farmington Ave. Farmington NM, 87401

Project Number: 05123-0002 Project Manager: W Gardner Reported: 14-Aug-13 07:39

#### Total Petroleum Hydrocarbons by 418.1 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1333007 - 418 Freon Extraction										
Blank (1333007-BLK1)				Prepared &	Analyzed:	12-Aug-13	1			
Total Petroleum Hydrocarbons	ND	20.0	mg/kg							
Duplicate (1333007-DUP1)	Sour	ce: P308025-	01	Prepared &	Analyzed:	12-Aug-13				
Total Petroleum Hydrocarbons	488	20.0	mg/kg		476			2.44	30	
Matrix Spike (1333007-MS1)	Source: P308025-01			Prepared &	Analyzed:	12-Aug-13	1			
Total Petroleum Hydrocarbons	2510	20.0	mg/kg	2000	476	102	80-120			



Chloride

Project Name:

155 GC-C1E Separator Pit

2700 Farmington Ave. Farmington NM, 87401 Project Number:

Reporting

100

05123-0002

Spike

Source

30400

%REC

Reported:

Project Manager:

30500

W Gardner

14-Aug-13 07:39

RPD

30

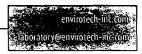
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#### Cation/Anion Analysis - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Batch 1333003 - Anion Extraction EPA 300.0	)		W-A-										
Blank (1333003-BLK1)				Prepared & Analyzed: 12-Aug-13									
Chloride	ND	10.0	mg/kg	,									
Duplicate (1333003-DUP1)	Source	Source: P308024-01			Analyzed:	12-Aug-13	:						

mg/kg





Project Name:

155 GC-C1E Separator Pit

2700 Farmington Ave.

Project Number:

05123-0002 W Gardner Reported:

Farmington NM, 87401 Project Manager:

14-Aug-13 07:39

#### **Notes and Definitions**

DET Analyte DETECTED

ND A

Analyte NOT DETECTED at or above the reporting limit

NR

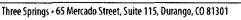
Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference





15808

### **CHAIN OF CUSTODY RECORD**

Client:		Pro	Project Name / Location:							ANALYSIS / PARAMETERS													
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505 320 - 7921		<u> </u>	,						(Me	\ ₹	(Me	A 8	1		š.	aple	4.5	\( \overline{\o		ı	1.	98	<u>.</u>
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./ of Co	No./Volume of Containers		Preservat		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
155 G C-LE JEP	8/4/13	10:48	P308025-01	\ -	4º/0			×	χ	X							X	X				Y	Y
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Soll Solid Sludge	Aqueous [	Other 🗌																					
☐ Sample(s) dropped off after	hours to see	cure drop of	f area.	3	env Anal	ir C	) †	<b>e</b> (	<b>h</b>	ì										1			
5795 US Highway 6	4 • Farmingto	on, NM 8740	1 • 505-632-0615 • T	hree Spri	ings • 65 M	1ercac	lo Stre	eet, Sc	⊔ite 1	15, D	urang	jo, C	0 813	301 •	labor	atory	∕@en	virote	ch-inc	.com			



