District I
 State of New Mexico

 1625 N. French Dr., Hobbs, NM 88240
 Energy Minerals and Natural Resources

 District II
 Bill S. First St., Artesia, NM 88210
 Department

 District III
 1000 Rio Brazos Road, Aztec, NM 87410
 District IV

 1220 S. St. Francis Dr., Santa Fe, NM 87505
 District IV
 District IV

 1220 S. St. Francis Dr., Santa Fe, NM 87505
 Santa Fe, NM 87505
 Pit, Below-Grade Tank, or

 Proposed Alternative Method Permit or Closure
 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

Form C-144 Revised June 6, 2013

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

Pit, Below-Grade Tank, or	
16293 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 ordinance	ç
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Operator:Enervest Operating LLCOGRID #:	
Address:2700 Farmington Ave, Building K, Suite 1. Farmington, N.M. 87401	
Facility or well name:Cain #001E	
API Number: 30-045-24321 OCD Permit Number:	
U/L or Qtr/Qtr Section25 Township31N Range13W County:San Juan	
Center of Proposed Design: Latitude36.86750 Longitude108.15058 NAD: []1927 [] 1983	ĺ
Surface Owner: 🗌 Federal 🗌 State 🖾 Private 🗌 Tribal Trust or Indian Allotment	
2. D Pit: Subsection F, G or J of 19.15.17.11 NMAC Tomporary D Drilling Warkeyer	
Permanent Emergency Cavitation P&A [DATE: 3/27/16 (505) 334-6178 Ext. 115 Shloride Drilling Fluid yes	
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other	
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:95bbl Type of fluid:Produced Water	
Tank Construction material:Steel double bottom tank	
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
Usible sidewalls and liner Visible sidewalls only Other leak detection	
Liner type: Thicknessmil HDPE PVC Other	
4. Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,	
institution or church)	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify Wire mesh fence with a pipe railing	
Form C-144 Oil Conservation Division Page 1 of 6	

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen 🗌 Netting 🛛 Other

Monthly inspections (If netting or screening is not physically feasible)

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

Variances and Exceptions:

8.

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

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

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

9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material 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. -	□ Yes ⊠ No □ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🗌 No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗍 No
 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗋 Yes 🗌 No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No

 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
<u>Permanent Pit or Multi-Well Fluid Management Pit</u>	
 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 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. A 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 19.15.17.12 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 Previously Approved Design (attach copy of design) API Number:30-045-24321 or Permit Number:	cuments are 9 NMAC
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 do attached.	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Oil Conservation Division

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12. <u>Permanent Pits Permit Application Checklist</u> : 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	locuments 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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC	
<u>Proposed Closure</u> : 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 Fl 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	uid Management Pit
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a 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 More that the comments are attached. More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC More that the comments of 19.15.17.13 NMAC <	attached to the
]
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 require justifications and/or demonstrations of equivalency. F 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	
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 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
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	_
Within a 100-year floodplain.	Yes No
- 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 play 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannel 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 	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print):Michael Dame Title:HSE Associate	
Signature:	
e-mail address:mdame@enervest.net Telephone:505-325-0318	<u> </u>
18. OCD Approval: Permit Applic OCD Approval: Permit Applic	
OCD Approval: Permit Appli OCD Representative Signature: DENIED	
Title:) Permit Number:	
19. <u>Closure Report (required within 60 days of closure completion)</u> : 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:11/1/2017	
 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-locol) If different from approved plan, please explain. 	op systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached.	dicate, by a check

Oil Conservation Division

Operator Closure Certification:

22.

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): _	Michael Dame	Title:HSE Associate	
Signature:	Maure	Date:3/12/2018	
e-mail address:_	mdame@enervest.net	Telephone:505-325-0318	



Analytical Report

Report Summary Client: Enervest Operating Chain Of Custody Number: Samples Received: 2/5/2018 10:44:00AM Job Number: 05123-0002 Work Order: P802010 Project Name/Location: Cain #1E

Walter Hinkenn

Date:

2/13/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

Tim Cain, Quality Assurance Officer

Date: 2/13/18

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.

5796 US Highway 64, Farmington, NM 87401

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

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Enervest Operating	Project Name:	Cain #1E	
2700 Farmington Ave.	Project Number:	05123-0002	Reported:
Farmington NM, 87401	Project Manager:	Mike Dame	13-Feb-18 16:31

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Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cain #1E	P802010-01A	Soil	02/05/18	02/05/18	Glass Jar, 4 oz.
	P802010-01B	Soil	02/05/18	02/05/18	Glass Jar, 4 oz.

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Encryest Operating	Project Name:			Cain #1E							
2700 Farmington Ave.	Project Number:		0512	05123-0002					Reported:		
Farmington NM, 87401	Project Manager: Mike Dame						13-Feb-18 16	:31			
		С	ain #1E								
		P8020	10-01 (Sc	olid)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organics by EPA 8021											
Benzene	ND	100	ug/kg	1	1806002	02/05/18	02/08/18	EPA 8021B			
Toluene	ND	100	ug/kg	1	1806002	02/05/18	02/08/18	EPA 8021B			
Ethylbenzene	ND	100	ug/kg	1	1806002	02/05/18	02/08/18	EPA 8021B			
p,m-Xylene	ND	200	ug/kg	1	1806002	02/05/18	02/08/18	EPA 8021B			
o-Xylene	ND	100	ug/kg	1	1806002	02/05/18	02/08/18	EPA 8021B			
Total Xylenes	ND	100	ug/kg	1	1806002	02/05/18	02/08/18	EPA 8021B			
Total BTEX	ND	100	ug/kg	1	1806002	02/05/18	02/08/18	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	50	-150	1806002	02/05/18	02/08/18	EPA 8021B			
Nonhalogenated Organics by 8015											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1806002	02/05/18	02/08/18	EPA 8015D			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1805024	02/05/18	02/06/18	EPA 8015D			
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1805024	02/05/18	02/06/18	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	50	-150	1806002	02/05/18	02/08/18	EPA 8015D			
Surrogate; n-Nonanc		97.4 %	50	-200	1805024	02/05/18	02/06/18	EPA 8015D			
Anions by 300.0											
Chloride	115	20.0	mg/kg	1	1807003	02/12/18	02/12/18	EPA 300.0			
Total Petroleum Hydrocarbons by 418.1											
Total Petroleum Hydrocarbons	ND	40.0	mg/kg	1	1806011	02/08/18	02/09/18	EPA 418.1			

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Enervest Operating	Pro	ject Name:	Ca	ain #1E						
2700 Farmington Ave.	Pro	ject Number:	05	123-0002					Report	ed:
Farmington NM, 87401	Project Manager: Mil		ike Dame	Dame				13-Feb-18 16:31		
	Volatile	Organics b	y EPA 8	021 - Qua	lity Cont	trol				
	E	nvirotech A	Analytic	cal Labor	atory					
1	Result	Reporting		Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	70REC	Limits	RPD	LINK	Notes
Batch 1806002 - Purge and Trap EPA 5030A										
Blank (1806002-BLK1)				Prepared: (05-Feb-18	Analyzed: (08-Feb-18			
Benzene	ND	100	ug/kg							
Toluene	ND	100	-							
Ethylbenzene	ND	100	-							
p.m-Xylene	ND	200	-							
p-Xylene	ND	100	-							
Total Xylenes	ND	100	-							
Total BTEX	ND	100		a new second	The other states of the states					
Surrogate: 4-Bromochlorobenzene-PID	7720		-	8000		96.5	50-150			
LCS (1806002-BS1)				Prepared: (05-Feb-18	Analyzed:	08-Feb-18			
Benzene	4980	100	ug/kg	5000		99.7	70-130			
Toluene	4900	100	**	5000		98.0	70-130			
Ethylbenzene	4910	100		5000		98.3	70-130			
p,m-Xylene	9820	200		10000		98.2	70-130			
o-Xylene	4830	100		5000		96.6	70-130			
Total Xylenes	14600	100	-	15000		97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7850		"	8000		98.1	50-150			
Matrix Spike (1806002-MS1)	Sou	rce: P802007-	01	Prepared: (05-Fcb-18	Analyzed:	08-Fcb-18			
Benzene	4960	100	ug/kg	5000	ND	99.2	54.3-133			
Toluene	4880	100	-	5000	ND	97.7	61.4-130			
Ethylbenzene	4890	100	-	5000	ND	97.9	61.4-133			
p,m-Xylene	9770	200	-	10000	ND	97.7	63.3-131			
o-Xylene	4800	100	-	5000	ND	96.0	63.3-131			
Total Xylenes	14600	100		15000	ND	97.2	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7790		*	8000		97.3	50-150			
Matrix Spike Dup (1806002-MSD1)	Sou	irce: P802007-	01	Prepared:	05-Feb-18	Analyzed:	08-Fcb-18			
Benzene	4950	100	ug/kg	5000	ND	99.1	54.3-133	0.177	20	
Toluene	4860	100	*	5000	ND	97.3	61.4-130	0.354	20	
Ethylbenzene	4880	100		5000	ND	97.7	61.4-133	0.168	20	
p,m-Xylene	9750	200		10000	ND	97.5	63.3-131	0.195	20	
o-Xylene	4790	100		5000	ND	95.9	63.3-131	0.0834	20	
Total Xylenes	14500	100		15000	ND	97.0	63.3-131	0.158	20	
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5796 US Highway 64, Farmington, NM 87401	Ph (\$05) 632-0615 Fx (\$05) 632-1865	envirotech-inc.com
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Enervest Operating	Pro	ject Name:	C	ain #1E						
2700 Farmington Ave.	Pro	ject Number:	04	5123-0002					Report	ed:
Farmington NM, 87401	Pro	ject Manager:	M	ike Dame					13-Feb-18	16:31
	Nonhalog	enated Org	anics by	8015 - Qu	ality Co	ntrol				
	E	nvirotech A	Analytic	cal Labor	atory					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1805024 - DRO Extraction EPA 35	70									
Blank (1805024-BLK1)				Prepared &	Analyzed:	05-Feb-18				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	**							
Surrogate: n-Nonane	58.5		"	50.0		117	50-200			
LCS (1805024-BS1)				Prepared &	Analyzed:	05-Feb-18				
Diesel Range Organics (C10-C28)	491	25.0	mg/kg	500		98.2	38-132			
Surrogate: n-Nonane	40.7		N	50.0		81.4	50-200			
Matrix Spike (1805024-MS1)	Sou	rce: P801048-	-01	Prepared &	Analyzed:	05-Feb-18				
Diesel Range Organics (C10-C28)	4780	250	mg/kg	500	4300	95.7	38-132			
Surrogate: n-Nonane	78.9		**	50.0		158	50-200			
Matrix Spike Dup (1805024-MSD1)	Sou	rce: P801048-	01	Prepared &	Analyzed:	05-Feb-18				
Diesel Range Organics (C10-C28)	5210	250	mg/kg	500	4300	181	38-132	8.51	20	SPK2
Surrogate: n-Nonane	74.6		"	50.0		149	50-200			

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615 Fx (505) 6	632-1865	envirotech-inc.com
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615 Fr (800) 3	362-1879	laboratory@envirotech-inc.com

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Enervest Operating	Proje	et Name:	C	ain #1E						
2700 Farmington Ave.	Proje	et Number:	05	123-0002					Report	ed:
Farmington NM, 87401	Proje	et Manager:	М	ike Dame					13-Feb-18	16:31
	Nonhaloge	nated Org	anics by	8015 - Qu	ality Co	ntrol				
	Env	virotech A	Analytic	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1806002 - Purge and Trap EPA 5)30A									
Blank (1806002-BLK1)				Prepared: 0	5-Feb-18	Analyzed: (8-Feb-18			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		*	8.00		96.9	50-150			
LCS (1806002-BS2)				Prepared: (5-Feb-18	Analyzed: (08-Fcb-18			
Gasoline Range Organics (C6-C10)	46.7	20.0	mg/kg	50.0		93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzenc-FID	8.00			8.00		99.9	50-150			
Matrix Spike (1806002-MS2)	Sour	ce: P802007-	01	Prepared: ()5-Feb-18	Analyzed: (08-Feb-18			
Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-F1D	8.11		*	8.00		101	50-150			
Matrix Spike Dup (1806002-MSD2)	Sour	ce: P802007-	01	Prepared: ()5-Fcb-18	Analyzed: (08-Feb-18			
Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0	ND	95.3	70-130	1.63	20	
Surrogate: 1-Chloro-4-fluorobenzenc-FID	8.22			8.00		103	50-150			

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Enervest Operating	Projec	et Name:	C	ain #1E						
2700 Farmington Ave.	Projec	et Number:	05	5123-0002					Report	ed:
Farmington NM, 87401	Proje	et Manager:	M	ike Dame					13-Feb-18	16:31
	A	nions by 3	00.0 - Q	uality Cor	trol					
	Env	virotech A	nalytic	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1807003 - Anion Extraction EPA 3	00.0/9056A									
Batch 1807003 - Anion Extraction EPA 3 Blank (1807003-BLK1) Chloride	800.0/9056A ND	20.0	mg/kg	Prepared &	Analyzed:	12-Feb-18				
Blank (1807003-BLK1)		20.0	mg/kg		Analyzed:					
Blank (1807003-BLK1) Chloride		20.0	mg/kg mg/kg				90-110			
Blank (1807003-BLK1) Chloride LCS (1807003-BS1)	ND 246		mg/kg	Prepared &		12-Feb-18 98.6	90-110			
Blank (1807003-BLK1) Chloride LCS (1807003-BS1) Chloride	ND 246	20.0	mg/kg	Prepared &	Analyzed:	12-Feb-18 98.6	90-110			
Blank (1807003-BLK1) Chloride LCS (1807003-BS1) Chloride Matrix Spike (1807003-MS1)	ND 246 Sourc 400	20.0	mg/kg 01 mg/kg	Prepared & 250 Prepared & 250	Analyzed:	12-Feb-18 98.6 12-Feb-18 114	90-110 80-120			

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Enervest Operating	Pro	ject Name:	C	ain #1E						
2700 Farmington Ave.	Pro	ject Number:	05	5123-0002					Report	ed:
Farmington NM, 87401	Pro	ject Manager:	M	ike Dame					13-Feb-18	16:31
	Total Petrole	um Hydrod	arbons	by 418.1 -	Quality	Control				
	E	nvirotech A	Analytic	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1806011 - 418 Freon Extraction Blank (1806011-BLK1)				Prepared: ()8-Feb-18	Analyzed: (9-Feb-18			
Fotal Petroleum Hydrocarbons	ND	40.0	mg/kg							
LCS (1806011-BS1)				Prepared: ()8-Fcb-18	Analyzed: (9-Fcb-18			
Total Petroleum Hydrocarbons	930	40.0	mg/kg	1000		93.0	80-120			
Matrix Spike (1806011-MS1)	Sou	rce: P802010-	-01	Prepared: (08-Feb-18	Analyzed: (09-Feb-18			
Total Petroleum Hydrocarbons	974	40.0	mg/kg	1000	ND	97.4	70-130			

Matrix Spike Dup (1806011-MSD1)	Source	: P802010-01	Prepared: (08-Feb-18	Analyzed:	09-Feb-18			
Total Petroleum Hydrocarbons	960	40.0 mg	g/kg 1000	ND	96.0	70-130	1.45	30	

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Enervest Operating	Project Name:	Cain #1E	
2700 Farmington Ave.	Project Number:	05123-0002	. Reported:
Farmington NM, 87401	Project Manager:	Mike Dame	13-Feb-18 16:31

Notes and Definitions

SPK2	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or greater than the spike concentration.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

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Project I	nformati	on	,			Chain of	Custody													of	_
Client: Enervest Operating Project: Cain #/E Project Manager: Michael Dame					_	Report Attention			Lab Use Only							-	AT		PA Pro		
					_	Report due by:			WO		1253	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		nber		1D	3D	RCRA	CW	A SDW	A
						Attention:			P802010-01				05123-0002								
Address: 2700 Farmington Ave, Billing Bitt				2. Bilding	12441	Address:						Analysis and Metho				d				State	
		arming		3140	31	City, State, Zip			115										NM	UT	Z
Phone: 305-215-7579				Phone:			y 80	=			0.0						V				
Email:	Mam	e Gen	envest	inet		Email:		ő	⁴ 0	8	826	501	es 3(1.					Ů		_
Time Sampled	Date Sampled	Matrix	No Containers	Sample I	D		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals	Chlorides 300.0	TPH 418.1					F	emarks	
10:02am	\$ 2015	ác:1	Feloz	Car	#/	5		V	V	V			V	~					5d	ay rust)
							1 state														
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Addition	al Instru	ctions:					in state of the														
(field sample	r), attest to t	he validity and	d authenticity	of this sample	e. I am aware	that tampering with or intentionally mislabelling $\beta = \beta + $	the sample location	, date	or time	of col	ection	Sample							tice the day t	hey are sampled quent days.	or
Relinquished by: (Signature) Date Time					Time	Received by: (Signature)	Date	Time				Lab Use					e Only	NC HALL		22	
Michael Hame 1-5-18 10:4 Relinquished by: (Signature) Date Time		10: 44 Time	Received by: (Signature)	2/5/18 Date		8 10:44 Time			Received on ice: Y / Ø T1 T2 T3 AVG Temp °C 23						Contraction of the						
ample Met	in C. Call	td. Colld P.	Chudro -	1.000	0.00		Containe	Tre		alar		A CARLES AND			-		alac	E Ma MC	A		
lote: Sampl	es are disca		s after resul	ts are repor	ted unless o	ther arrangements are made. Hazardous s with this COC. The liability of the laboraot	amples will be re	turne	d to cl	lent o	r disp	osed o	f at th							of the abov	e
									and pe												_
3	en	vir		126	ן	5796 US Highway 64, Farmington Three Springs - 65 Mercado Stree	Sector in the sector was an end of the	0 \$1202						Fx (505	-				10	envitotik catory envitotik	

Dame, Michael

From: Sent: To: Subject: Dame, Michael Monday, January 29, 2018 9:25 AM Smith, Cory, EMNRD 72 hour notice for Cain #001E

Good Morning,

Enervest Operating is notifying of a 72 hour notice for the Cain #001E on Thursday morning February 1st, 2018 at 9:30 am. We are going to pull the below grade pit on this location. After that we will be conducting a soil sample and have it analyzed by Envirotech Laboratory. The Surface Location is U/L: I, Section 25, Township 31N, Range 13W. Lat: 36.86750, Long: -108.15058. Cain #001E (API # 30-045-24321).

Thank you,

Michael Dame CSHO EnerVest, Ltd. | HSE Specialist 2700 Farmington Ave., Building K, Suite 1| Farmington, NM 87401 | Mobile:505.215.7879 mdame@enervest.net | www.enervest.net





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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.

1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505		Sa	anta F	e, NM 875	05						
			Rele	ease Notific	catio	n and Co	orrective A	ction					
						OPERA	ГOR	Init:	al Report 🛛 Final Repor				
Name of Co	mpany En	ervest Opera	ating			Contact Mi	chael Dame		A				
Address 270	00 Farming	gton Ave B	uilding K	, Suite #1		Telephone 1	No. 505-325-03	18					
Facility Nar	ne: Cain #	001E				Facility Typ	e Oil & Gas Pro	oduction					
Surface Ow	ner: Privat	te		Mineral C	Owner:	Private		API N	0. 30-045-24321				
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter I	LOCATION OF RELEASELetterSection 25Township 31NRange 13WFeet from the 				Feet from the	East/West Line	County San Juan						
	1	L	atitude_	_N. 36.86750_	L	ongitude	W -108.150	58					
				NAT	TURE	OF REL	EASE						
Type of Rele							Release None		ne Recovered none				
Source of Re Was Immedia		liven?				If YES, To	Iour of Occurrence	be Date and	Hour of Discovery				
was minicul			Yes 🗵	No 🗌 Not R	equired	п 115, 10	/ witom:						
By Whom?						Date and H	Iour						
Was a Water	course Read		Yes 🗵] No		If YES, Vo	olume Impacting t	the Watercourse.					
If a Watercon	urse was Im	pacted, Descr	ibe Fully.'	*				- and the second second second	MOCD				
									A M O C D				
								MA	R 1 2 2018				
Below grade Benzene – N BTEX – No GRO/DRO – Total Petrole Chloride – 1	tank excava on Detect (n Detect (E Non Detec um Hydroc 15 mg/kg (F	EPA Method PA Method 80 t mg/kg (EPA arbons – Non EPA Method 3	A five po 8021) 021) A 8015) Detect mg 00.0)	pint composite sat 2/kg (EPA Metho			the excavation a	nd submitted analy	sis, the results are				
No release w	as detected	and Cleanup A by analysis											
regulations a public health should their o or the enviro	ll operators or the envi operations h nment. In a	are required t ronment. The nave failed to a	o report and acceptance adequately OCD accept	nd/or file certain i ce of a C-141 repo investigate and i	release 1 ort by th remedia	notifications a ne NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actions for re eport" does not re eat to ground wate	suant to NMOCD rules and leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other				
		1/1					OIL CON	SERVATION	DIVISION				
Signature:	9/1	Es-	0										
						Approved by Environmental Specialist:							
Title: HSE Specialist						Approval Date: Expiration			n Date:				
						Conditions of		Attached					

Date: 02/14/2018 Phone: 505-325-0318

* Attach Additional Sheets If Necessary

EnerVest Operating, LLC (EV)

BELOW-GRADE TANK CLOSURE PLAN

Rule 19.15.17.13

Well Name – Cain #001E API # 30-045-24321 Location UL- I, Sec 25, T-31N, R-13W Lat: N 36.86750 Lat W -108.15058

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 February 1st, 2018.

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 provided 72 hour notification to the state of New Mexico and the landowner. See attached notification and responses

- 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 belowgrade 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 Envirotech Land Farm (Permit #NM-01-0011). The interior of the tank was steam cleaned prior to removal. The tank was transported to the Enervest 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	Old Standard	Test Results
Chloride	EPA 300.0	250 mg/kg	115 mg/kg
			Non-
	EPA SW-846		Detect
TPH	Method 418.1	100 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	0.2 mg/kg	Detect
	EPA SW-846		Non-
GRO/DRO	Method 8015B	500 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 Sierra Oilfield Services utilizing soil that was already on location. The location was contoured to match the existing terrain. See attached photographs

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 has not reseeded the area where the pit was removed due to where it was located between the oil tank and the newly set above grade tank