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

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

District IV

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, 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

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 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
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
lease be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water of the nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator:Enervest Operating LLCOGRID #:
Address: 2700 Farmington Ave Building K Suite 1
Facility or well name:Jicarilla 35 A Gas Com #1E
API Number:OCD Permit Number:
U/L or Qtr/QtrJ Section11 Township _24N Range5W County: Rio Arciba
U/L or Qtr/Qtr J Section11 Township _24N Range5W County: Rio Arciba Center of Proposed Design: Latitude _36.323762 Longitude107.327971 NAD: ☐1927 ☒ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ 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:95bbl Type of fluid:Produced Water
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☒ Visible sidewalls only ☒ Other
Liner type: Thicknessmil
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. Forming Subsection D of 10.15.17.11 NIMAC (Applies to payment with towns on which and below
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 specifyFour 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)								
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: 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 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 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. (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)	Į Į							
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								

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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NM Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the document 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 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 and 19.15.17.13 NMAC	uments are
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 docu 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 19.1 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:	5.17.9 NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached. ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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	luid 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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I 19.15.17.10 NMAC for guidance.	rce material are Please refer to
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
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
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
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	
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
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	∫ Va. □ Na
Within a 100-year floodplain. FEMA map	☐ Yes ☐ No☐ 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 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 - 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	11 NMAC 15.17.11 NMAC
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 believed.	
Name (Print):Michael Dame Title:HSE Associate	
Signature: Date:11/5/2014	
e-mail address:mdame@enervest.net505-325-0318	
18. OCD Approval: Permit Application (including closure plan) Glosure Plan (enly)- OCD Conditions (see attachment)	_
OCD Representative Signature: Approval Date: 1/21/	2015
Title: Compliance Office OCD Permit Number:	
20. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-Ic ☐ If different from approved plan, please explain.	op systems only)
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. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure for private land only) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation) □ On-site Closure Location: Latitude _36.32348	

Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closure rep belief. I also certify that the closure complies with all applicable closure requirement		
Name (Print):Michael Dame	Title:	HSE Associate
Signature:	Date:	11/5/14
e-mail address:mdame@enervest.net	Telephone:	505-325-0318



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

JICARILLA AGENCY P.O. BOX 167 DULCE, NEW MEXICO 87528



IN REPLY REFER TO: Energy & Minerals Management

NOV 1 0 2014

Mr. Michael Dame EnerVest Operating, LLC 2700 Farmington, Building K, Suite 1 Farmington, New Mexico 87401 OIL CONS. DIV DIST. 3
DEC 1 1 2014

Dear Mr. Dame:

This is in response to your request, dated **November 5, 2014**, for Permission to Perform Plug and Abandonment (PTPA) Procedures on the following location, which is on Tribal Surface:

Lease No. 35, Jicarilla 35 A Gas Com #1E:

Located in Section 11, Township 24 North, Range 5 West, N.M.P.M. Rio Arriba County, New Mexico (API No. 30-039-22173).

Scope of Work:

Perform plug and abandonment procedures including reclamation. Close below grade pit on the above indicated location.

The Bureau of Indian Affairs, Jicarilla Agency, hereby grants EnerVest Operating, LLC and its contractors permission to perform plug and abandonment procedures on the above indicated location. Please submit an affidavit of completion or final report when completed.

Enclosed for your reference is the Jicarilla Oil and Gas Administration Standard Stipulations (Section K – Reseeding and Section L – Abandonment) which apply to plug and abandonment activities.

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

Sincerely,

Acting Superintendent

Enclosure

CC:

Jicarilla Oil and Gas Administration



Project Name:

Jic 35 A E-001

2700 Farmington Ave.

Project Number:

05123-0002

Reported: 03-Nov-14 09:17

Farmington NM, 87401

Project Manager: W Gardner

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Jic 35A E001	P410111-01A	Soil	10/24/14	10/24/14	Glass Jar, 4 oz.





Project Name:

Jic 35 A E-001

2700 Farmington Ave. Farmington NM, 87401

Project Number:

05123-0002

Project Manager:

W Gardner

Reported:

03-Nov-14 09:17

Jic 35A E001 P410111-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1443050	10/24/14	11/02/14	EPA 8021B	•
Toluene	ND	0.10	mg/kg	1	1443050	10/24/14	11/02/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1443050	10/24/14	11/02/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1443050	10/24/14	11/02/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1443050	10/24/14	11/02/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1443050	10/24/14	11/02/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1443050	10/24/14	11/02/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	50	-150	1443050	10/24/14	11/02/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1443050	10/24/14	11/02/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	40.0	mg/kg	2	1443051	10/24/14	10/27/14	EPA 8015D	
Surrogate: o-Terphenyl		93.9 %	50	-200	1443051	10/24/14	10/27/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID	_	84.4 %	50	-150	1443050	10/24/14	11/02/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	39.9	34.9	mg/kg	1	1444008	10/27/14	10/27/14	EPA 418.1	
Cation/Anion Analysis			_					_	
Chloride	157	9.87	mg/kg	1	1444002	10/27/14	10/27/14	EPA 300.0	



Project Name:

Jic 35 A E-001

2700 Farmington Ave. Farmington NM, 87401

Project Number:

05123-0002

Project Manager:

W Gardner

Reported: 03-Nov-14 09:17

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Ratch 1443050 - Purge and Tran EPA 50	130A									

Blank (1443050-BLK1)				Prepared: 2	4-Oct-14	Analyzed: 1	27-Oct-14			
Benzene	ND	0.10	mg/kg					, water		
Toluene	ND	0.10	п							
Ethylbenzene	ND	0.10	п							
p,m-Xylene	ND	0.20	n							
o-Xylene	ND	0.10	n							
Total Xylenes	ND	0.10	u							
Total BTEX	ND	0.10	n							
Surrogate: 4-Bromochlorobenzene-PID	0.419		"	0.399		105	50-150			
LCS (1443050-BS1)				Prepared: 2	4-Oct-14	Analyzed: 1	27-Oct-14			
Benzene	20.4	0.10	mg/kg	20.0		102	75-125			
Toluene	20.7	0.10	п	20.0		104	70-125			
Ethylbenzene	20,7	0.10	п	20.0		104	75-125			
p,m-Xylene	41.7	0.20	II .	39.9		105	80-125			
o-Xylene	20.6	0.10	II .	20.0		103	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.408		"	0.399		102	50-150		, , , , , , , ,	· · ·
Matrix Spike (1443050-MS1)	Sourc	e: P410107-	01	Prepared: 24-Oct-14 Analyzed: 27-Oct-14						
Benzene	20.6	0.10	mg/kg	20.0	ND	103	75-125			
Toluene	21.0	0.10	**	20.0	ND	105	70-125			
Ethylbenzene	21.0	0.10	"	20.0	ND	105	75-125			
p,m-Xylene	42.3	0.20	"	39.9	ND	106	80-125			
o-Xylene	21.0	0.10	**	20.0	ND	105	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.411		"	0.399		103	50-150			
Matrix Spike Dup (1443050-MSD1)	Sourc	e: P410107-	01	Prepared: 2	4-Oct-14	Analyzed: 1	27-Oct-14			
Benzene	19.8	0.10	mg/kg	20.0	ND	99.4	75-125	3.88	15	
Toluene	20.1	0.10	**	20.0	ND	101	70-125	4.29	15	
Ethylbenzene	20.1	0.10	**	20.0	ND	101	75-125	4.54	15	
o,m-Xylene	40.5	0.20	"	40.0	ND	101	80-125	4.47	15	
o-Xylene	20.2	0.10	*	20.0	ND	101	75-125	4.19	15	
Surrogate: 4-Bromochlorobenzene-PID	0.410		"	0.400	,	103	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

eñvirotech-inc.com laboratory@envirotech-inc.com



Project Name:

Jic 35 A E-001

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

Reported:

03-Nov-14 09:17

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1443050 - Purge and Trap EPA 503	0A									
Blank (1443050-BLK1)				Prepared: 2	24-Oct-14	Analyzed: 2	27-Oct-14			
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.378	-	"	0.399		94.6	50-150			
LCS (1443050-BS1)				Prepared: 2	24-Oct-14	Analyzed: 2	27-Oct-14			
Gasoline Range Organics (C6-C10)	286	9.98	mg/kg	291		98.1	80-120	_		
Surrogate: 4-Bromochlorobenzene-FID	0.368		"	0.399		92.2	50-150			
Matrix Spike (1443050-MS1)	Sou	rce: P410107-	01	Prepared: 2	24-Oct-14	Analyzed: 2	27-Oct-14			
Gasoline Range Organics (C6-C10)	297	9.99	mg/kg	292	ND	102	75-125	_		<u> </u>
Surrogate: 4-Bromochlorobenzene-FID	0.374		"	0.399		93.6	50-150			
Matrix Spike Dup (1443050-MSD1)	Sou	rce: P410107-	01	Prepared: 2	24-Oct-14	Analyzed: 2	27-Oct-14			
Gasoline Range Organics (C6-C10)	285	9.99	mg/kg	292	ND	97.9	75-125	4.13	15	
Surrogate: 4-Bromochlorobenzene-FID	0.372		"	0.400		93.2	50-150			







Project Name:

Jic 35 A E-001

2700 Farmington Ave.

Project Number:

05123-0002

Reported:

Farmington NM, 87401

Project Manager:

W Gardner

03-Nov-14 09:17

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC_	Limits	RPD	Limit	Notes
Batch 1443051 - DRO Extraction EPA 3	550M									
Blank (1443051-BLK1)				Prepared: 2	24-Oct-14	Analyzed: 2	27-Oct-14			
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	38.0		"	39.9		95.2	50-200			
LCS (1443051-BS1)	· · · · · · · · · · · · · · · · · · ·			Prepared: 2	24-Oct-14	Analyzed: 2	27-Oct-14			
Diesel Range Organics (C10-C28)	504	25.0	mg/kg	500		101	38-132			
Surrogate: o-Terphenyl	40.8		"	40.0		102	50-200			
Matrix Spike (1443051-MS1)	Sour	ce: P410107-	01	Prepared: 2	24-Oct-14	Analyzed: 2	27-Oct-14			
Diesel Range Organics (C10-C28)	543	39.9	mg/kg	499	ND	109	38-132			
Surrogate: o-Terphenyl	47.1		"	39.9		118	50-200			
Matrix Spike Dup (1443051-MSD1)	Sour	Source: P410107-01		Prepared: 2	24-Oct-14	Analyzed: 2	27-Oct-14			
Diesel Range Organics (C10-C28)	658	44.9	mg/kg	499	ND	132	38-132	19.2	20	
Surrogate: o-Terphenyl	57.4		"	39.9		144	50-200			



Project Name:

Jic 35 A E-001

2700 Farmington Ave.

Project Number: 05123-0002

Reported: 03-Nov-14 09:17

Farmington NM, 87401

Project Manager: W Gardner

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1444008 - 418 Freon Extraction										
Blank (1444008-BLK1)				Prepared &	Analyzed:	27-Oct-14				
Total Petroleum Hydrocarbons	ND	34.9	mg/kg							
Duplicate (1444008-DUP1)	Sou	irce: P410105-01		Prepared &	Analyzed:	27-Oct-14				
Total Petroleum Hydrocarbons	ND	35.0	mg/kg		ND				30	
Matrix Spike (1444008-MS1)	Sou	rce: P410105-	01	Prepared &	k Analyzed:	27-Oct-14				
Total Petroleum Hydrocarbons	1980	34.9	mg/kg	2020	ND	98.2	80-120	· ————		



Project Name:

Jic 35 A E-001

2700 Farmington Ave.

Project Number:

05123-0002

Reported: 03-Nov-14 09:17

Farmington NM, 87401

Project Manager:

W Gardner

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1444002 - Anion Extraction EPA 300.0										
Blank (1444002-BLK1)				Prepared &	Analyzed:	27-Oct-14				
Chloride	ND	9.91	mg/kg							

Chloride

LCS (1444002-BS1)

488

9,95 mg/kg Prepared & Analyzed: 27-Oct-14

98.0

90-110

Matrix Spike (1444002-MS1) Chloride

Source: P410105-01 489 9,87

mg/kg

Prepared & Analyzed: 27-Oct-14

ND 99.1 80-120

Matrix Spike Dup (1444002-MSD1) Chloride

Source: P410105-01 9.99 498

mg/kg

Prepared & Analyzed: 27-Oct-14 500

ND 99.8

80-120

1.84 20





Project Name:

Jic 35 A E-001

2700 Farmington Ave. Farmington NM, 87401

Project Number:

05123-0002

Project Manager:

W Gardner

Reported:

03-Nov-14 09:17

Notes and Definitions

DET

Analyte DETECTED

ND

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

16840

CHAIN OF CUSTODY RECORD

Client:			Project Name / Location:						ANALYSIS / PARAMETERS													
ENERVEST			JIC 35 A E-001																			
Email results to:	\	NET Sa	mpler Name:						2)	12	00											
WENDONER O EN	ERVES	<u> </u>	L BARDA	NEK					80)8 p	856	SE	٠_		<u>a</u>	7						
Client Phone No.:		Cli	ent No.:	12	0002				B	阜	٩	feta	ie		主	96	=	ш			2	tac S
505-320-792	ч		051	L7 -	0002				Met	S (₹	(Met	181	۸/۲		¥i‡	able	418	RID			1 a	<u> </u>
Sample No./ Identification	Sample Date	Sample Time.	Lab No.		/Volume ontainers	P HNO ₃	reserva HCI	ative	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	교	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
51 C 35 A E 001	10/24/14	13:20	P410111-01	\ \	4 8/8				×	x							×	χ			✓	<u> </u>
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☐ Sample(s) dropped off after	hours to se	cure drop of	ff area.	<u>)</u>	env	0 B 16 4	~ ♣	<u>^</u>	~ L			13.	8									
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EnerVest Operating, LLC (EV)

BELOW-GRADE TANK CLOSURE PLAN

Rule 19.15.17.13

Well Name – Jicarilla 35 A Gas Com #001E API # 30-039-22173 Location UL- J, Sec 11, T-24N, R-5W Lat: N 36.323762 Lat W -107.327971

Before November 15, 2014, 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 October 31, 2014.

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 Jicarilla Tribal Environmental Protection Officer per regulations. 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 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 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 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:

				JK 1/21/2015
		Groundwater	Test	JK 1/21/2015 Approved Closuse Permit Standards
Constituent	Method	51-100 FT	Results	[Closare termit standarous
		10,000	157	1000
Chloride	EPA 300.0	mg/kg	mg/kg	250 mg/kg
	EPA SW-846		39.9	
ТРН	Method 418.1	2,500 mg/kg	mg/kg	100 mg/Kg
	EPA SW-846	V	Non-	1 3 3
	Method 8021B	$\lambda \lambda \lambda$	Detect	1000
BTEX	or8260B	50 mg/kg	mg/kg	50 mg/kg"
	EPA -SW-846	/ 3/3/s		
	Method 8021B or		Non-	0.2 mg/Kg
Benzene	8015M	10 mg/kg	Detect	U.Z. Grid
	EPA SW-846		Non-	1 de mont of
GRO/DRO	Method 8015B	1,000 mg/kg	Detect	Not part of closure

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 on November 10, 2014 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 reseeded the excavated area with Jicarilla Southern Seed Mix. See attached photos.

<u>District I</u> 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**

Revised August 8, 2011

Form C-141

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.

			Rele	ease Notific	ation	and Co	orrective A	ction						
						OPERA'	ГOR	☐ Initia	l Report 🛛	Final Report				
Name of Co	mpany En	ervest Opera	iting			Contact Michael Dame								
		gton Ave B		. Suite #1		Telephone No. 505-325-0318								
		a 35 A Gas (e Oil & Gas Pro							
Surface Ow	ner Jicarill	la Tribe		Mineral O	wner J	icarilla Tril	be	API No	<u>. 30-039-22173</u>					
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County														
Unit Letter J	Section 11	Township 24N	Range 5W	Feet from the	North/S	Feet from the East/West Line County Rio Arriba								
Latitude_N. 36.323762 Longitude W -107.327971														
				NAT	URE	OF REL								
Type of Rele						 	Release None		ecovered none					
Source of Re							lour of Occurrence	e Date and	Hour of Discover	ТУ				
Was Immedia	ate Notice (Yes 🗵	No ☐ Not Re	quired	If YES, To	Whom?							
By Whom?	· · · · · · · · · · · · · · · · · · ·					Date and I	<u> </u>							
Was a Water	course Read	ched?					olume Impacting	the Watercourse.						
			Yes 🗵	No										
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.	*		I			 -					
Below grade Benzene – N BTEX – No GRO/DRO – Total Petrole	tank excava on Detect (En Detect (En Non Detect um Hydroc	EPA Method PA Method 80 t (EPA 8015)	A five po 8021) 021) mg/kg (E			collect fron	the excavation a	nd submitted analy	sis, the results are)				
Describe Are No release w		and Cleanup A by analysis	Action Tal	cen.*										
regulations a public health should their or or the enviro	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to a	o report an acceptant adequately OCD accept	nd/or file certain rece of a C-141 reporting and re	elease no ort by the emediate	otifications a NMOCD m contaminati	nd perform correct parked as "Final Roon that pose a thr	understand that purs ective actions for rele teport" does not reli reat to ground water responsibility for co	eases which may eve the operator , surface water, h	endanger of liability numan health				
						OIL CONSERVATION DIVISION								
g: .														
Signature:						 Annroved by	Environmental S	necialist:						
Printed Name	e: Michael	Dame						F-3-3						
Title: HSE A	ssociate					Approval Da	te:	Expiration	Date:					
E-mail Addre	ess: mdame	@ enervest.ne	t		(Conditions o	f Approval:		Attached					
Date: 11-:	5-2014	Phone:	505-325-	0318										

^{*} Attach Additional Sheets If Necessary

JICARILLA: GAS COM 35-A E001 API# 3003922173 FEDERAL LEASE# NMNM075898 NW/4 SE/4 (J) S.11-T24N-R5W Rio, Arriba County (ELEV. 6,634) ENERVEST OPERATING, LLG VOOMPANY LAT 36.32348 LONG 107.32818

HYDROGEN SULFIDE

VAPOR CAN BE IRRITATING TO EVES

FOR INHALATION: U WORKSON

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Dame, Michael

From:

Smith, Cory, EMNRD < Cory. Smith@state.nm.us>

To:

Dame, Michael

Sent:

Thursday, November 06, 2014 4:10 PM

Subject:

Read: 72 Hour Notice

Your message

To:

Subject: 72 Hour Notice

Sent: Thursday, November 6, 2014 5:10:05 PM (UTC-06:00) Central Time (US & Canada)

was read on Thursday, November 6, 2014 5:09:48 PM (UTC-06:00) Central Time (US & Canada).