

**1RF-489 -
VADER FRAC PITS
FACILITY ID
[fVV2219555299]
C-147/CESSATION
OF OPERATIONS**

**[331255] Crockett
Operating, LLC
February 8, 2024**



Crockett Operating, LLC
1101 N. Little School Rd
Arlington, TX 76017
(817) 992-0998

January 30, 2024

Ms. Victoria Venegas
New Mexico EMNRD
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Extension of the cessation of operations request for 1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299]

Ms. Venegas,

[331255] Crockett Operating requests an extension of the cessation of operations from 01/30/2024 to 07/30/2024 for 1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299]. Please let me know if you need more information to fulfill the request. You can reach me at 713-306-9706 or gayle.foord@crocketttops.com.

Warm regards,



Gayle Foord
Regulatory Manager
gayle.foord@crocketttops.com
713-306-9706

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

Form C-147
Revised April 3, 2017

Recycling Facility and/or Recycling Containment

Type of Facility: ☐ Recycling Facility ☒ Recycling Containment*
Type of action: ☐ Permit ☐ Registration ☒ Extension ☐ Other (explain) _____
☐ Modification ☒ Extension An extension to extend the
☐ Closure cessation of operation request

* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Crockett Operating LLC (For multiple operators attach page with information) OGRID #: 331255
Address: 1101 N. Little School Rd. Arlington TX 76017
Facility or well name (include API# if associated with a well): Vader Frac Pits
OCD Permit Number: 1RF-489 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr NE/4, SE/4 Section 25 Township 13 South Range 37 East County: Lea County
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 33.161503° Longitude -103.146374° NAD83
Proposed Use: ☒ Drilling* ☒ Completion* ☒ Production* ☒ Plugging*
*The re-use of produced water may NOT be used until fresh water zones are cased and cemented
☐ Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.
☐ Fluid Storage
☐ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type _____
☐ Activity permitted under 19.15.36 NMAC explain type: _____ ☐ Other explain _____
☐ For multiple or additional recycling containments, attach design and location information of each containment
☐ **Closure Report (required within 60 days of closure completion):** ☐ Recycling Facility Closure Completion Date: _____

3.
☐ **Recycling Containment:**
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 33.161503° Longitude -103.146374° NAD83
☐ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☐ Liner type: Thickness 60/40 mil ☐ LLDPE ☒ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 510,256 bbl Dimensions: L 540 x W 440 x D 24
☐ Recycling Containment Closure Completion Date: _____

4.

Bonding:

- ☐ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)
- ☒ Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ 200,790 (work on these facilities cannot commence until bonding amounts are approved)
- ☐ Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

Fencing:

- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify 8-ft tall Game Fence

6.

Signs:

- ☒ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.16.8 NMAC

7.

Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

- ☒ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

8.

Siting Criteria for Recycling Containment

Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

General siting**Ground water is less than 50 feet below the bottom of the Recycling Containment.**

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.

☐ Yes ☒ No
☐ NA

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

Within the area overlying a subsurface mine.

☐ Yes ☒ No

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

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

Within a 100-year floodplain. FEMA map

☐ 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).

☐ Yes ☒ No

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

Within 1000 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 spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

☐ Yes ☒ No

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

Within 500 feet of a wetland.

☐ Yes ☒ No

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site


9.
Recycling Facility and/or Containment Checklist:

Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

- ☒ Design Plan - based upon the appropriate requirements.
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements.
- ☒ Closure Plan - based upon the appropriate requirements.
- ☒ Site Specific Groundwater Data -
- ☒ Siting Criteria Compliance Demonstrations -
- ☒ Certify that notice of the C-147 (only) has been sent to the surface owner(s)

10.
Operator Application Certification:

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): Gayle Foord Title: Regulatory Manager
Signature:  Date: 01/16/2024
e-mail address: Gayle.Foord@CrockettOps.com Telephone: 713-306-9706

11.
OCD Representative Signature: Victoria Venegas Approval Date: 02/07/2024

Title: Environmental Specialist OCD Permit Number: 1RF-489

- ☒ OCD Conditions
- ☒ Additional OCD Conditions on Attachment

Weekly Inspection Log Sheet - In Ground Containment

Inspect weekly while fluids present (>1 foot); Monthly when fluids <1 foot							
Inspection Date	Describe any 1. Tear of Liner 2. Break in Berms and Run-on of 3. Dead Wildlife 4. Oil on Fluid			Report Fluid Freeboard	Leak Detection System Functioning (yes/no)	Comments	
1/2/2024	X	None Observed	Yes Describe	2.6	Yes		
1/9/2024	X	None Observed	Yes Describe	2.6	Yes		
1/16/2024	X	None Observed	Yes Describe	2.6	Yes		
1/23/2024	X	None Observed	Yes Describe	2.6	Yes		
1/30/2024		None Observed	Yes Describe		Yes		
2/6/2024		None Observed	Yes Describe		Yes		
2/13/2024		None Observed	Yes Describe		Yes		
2/20/2024		None Observed	Yes Describe		Yes		
2/27/2024		None Observed	Yes Describe		Yes		
3/5/2024		None Observed	Yes Describe		Yes		
3/12/2024		None Observed	Yes Describe		Yes		
3/19/2024		None Observed	Yes Describe		Yes		
3/26/2024		None Observed	Yes Describe		Yes		
		None Observed	Yes Describe		Yes		
		None Observed	Yes Describe		Yes		
		None Observed	Yes Describe		Yes		

Weekly inspections consist of:

- reading and recording the fluid height of staff gauges,
- recording any evidence that the pond surface shows visible oil,
- visually inspecting the containment's exposed liners
- checking the leak detection system for any evidence of a loss of integrity of the primary liner.
- inspect diversion ditches and berms around the containment to check for erosion and collection of surface water run-on.
- inspect the leak detection system for evidence of damage or malfunction and monitor for leakage.

Monthly, the operator will:

- Inspect the containment for dead migratory birds and other wildlife. Within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.
- Report to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.
- Record sources and disposition of all recycled water.

Weekly Inspection Log Sheet - In Ground Containment

Inspect weekly while fluids present (>1 foot); Monthly when fluids <1 foot							
Inspection Date	Describe any 1. Tear of Liner 2. Break in Berms and Run-on of 3. Dead Wildlife 4. Oil on Fluid				Report Fluid Freeboard	Leak Detection System Functioning (yes/no)	Comments
10/10/2023	X	None Observed		Yes Describe	4.8	Yes	
10/17/2023	X	None Observed		Yes Describe	3.9	Yes	
10/24/2023	X	None Observed		Yes Describe	3.2	Yes	
10/31/2023	X	None Observed		Yes Describe	2.6	Yes	
11/7/2023	X	None Observed		Yes Describe	2.6	Yes	Wells are shut in until pit levels are addressed.
11/14/2023	X	None Observed		Yes Describe	2.6	Yes	
11/21/2023	X	None Observed		Yes Describe	2.6	Yes	
11/28/2023	X	None Observed		Yes Describe	2.6	Yes	
12/5/2023	X	None Observed		Yes Describe	2.6	Yes	
12/12/2023	X	None Observed		Yes Describe	2.6	Yes	
12/19/2023	X	None Observed		Yes Describe	2.6	Yes	
12/26/2023	X	None Observed		Yes Describe	2.6	Yes	

Weekly inspections consist of:

- reading and recording the fluid height of staff gauges,
- recording any evidence that the pond surface shows visible oil,
- visually inspecting the containment's exposed liners
- checking the leak detection system for any evidence of a loss of integrity of the primary liner.
- inspect diversion ditches and berms around the containment to check for erosion and collection of surface water run-on.
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- Report to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.
- Record sources and disposition of all recycled water.

Weekly Inspection Log Sheet - In Ground Containment

Inspect weekly while fluids present (>1 foot); Monthly when fluids <1 foot							
Inspection Date	Describe any 1. Tear of Liner 2. Break in Berms and Run-on of 3. Dead Wildlife 4. Oil on Fluid			Report Fluid Freeboard	Leak Detection System Functioning (yes/no)	Comments	
6/20/2023	X	None Observed	Yes Describe	7.5	Yes		
6/27/2023	X	None Observed	Yes Describe	7	Yes		
7/4/2023	X	None Observed	Yes Describe	6.8	Yes		
7/11/2023	X	None Observed	Yes Describe	6.4	Yes		
7/18/2023	X	None Observed	Yes Describe	6	Yes		
7/25/2023	X	None Observed	Yes Describe	6.5	Yes	Started frac on Anakin 1H	
8/1/2023	X	None Observed	Yes Describe	11.5	Yes		
8/8/2023	X	None Observed	Yes Describe	11.8	Yes		
8/15/2023	X	None Observed	Yes Describe	11.6	Yes		
8/22/2023	X	None Observed	Yes Describe	12	Yes		
8/29/2023	X	None Observed	Yes Describe	10.9	Yes		
9/5/2023	X	None Observed	Yes Describe	9.4	Yes		
9/12/2023	X	None Observed	Yes Describe	8.1	Yes		
9/19/2023	X	None Observed	Yes Describe	7.8	Yes		
9/26/2023	X	None Observed	Yes Describe	6.6	Yes		
10/3/2023	X	None Observed	Yes Describe	5.8	Yes		

Weekly inspections consist of:

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- visually inspecting the containment's exposed liners
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- inspect diversion ditches and berms around the containment to check for erosion and collection of surface water run-on.
- inspect the leak detection system for evidence of damage or malfunction and monitor for leakage.

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- Report to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.
- Record sources and disposition of all recycled water.

Weekly Inspection Log Sheet - In Ground Containment

Inspect weekly while fluids present (>1 foot); Monthly when fluids <1 foot							
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2/28/2023	X	None Observed	Yes Describe	15.5	Yes		
3/7/2023	X	None Observed	Yes Describe	14.9	Yes		
3/14/2023	X	None Observed	Yes Describe	14.2	Yes		
3/21/2023	X	None Observed	Yes Describe	13.6	Yes		
3/28/2023	X	None Observed	Yes Describe	13.1	Yes		
4/4/2023	X	None Observed	Yes Describe	12.7	Yes		
4/11/2023	X	None Observed	Yes Describe	12.3	Yes		
4/18/2023	X	None Observed	Yes Describe	11.8	Yes		
4/25/2023	X	None Observed	Yes Describe	11.4	Yes		
5/2/2023	X	None Observed	Yes Describe	11	Yes		
5/9/2023	X	None Observed	Yes Describe	10.5	Yes		
5/16/2023	X	None Observed	Yes Describe	10	Yes		
5/23/2023	X	None Observed	Yes Describe	9.5	Yes		
5/30/2023	X	None Observed	Yes Describe	8.7	Yes		
6/6/2023	X	None Observed	Yes Describe	8.3	Yes		
6/13/2023	X	None Observed	Yes Describe	7.9	Yes		

Weekly inspections consist of:

- reading and recording the fluid height of staff gauges,
- recording any evidence that the pond surface shows visible oil,
- visually inspecting the containment's exposed liners
- checking the leak detection system for any evidence of a loss of integrity of the primary liner.
- inspect diversion ditches and berms around the containment to check for erosion and collection of surface water run-on.
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- Inspect the containment for dead migratory birds and other wildlife. Within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.
- Report to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.
- Record sources and disposition of all recycled water.

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Thursday, February 8, 2024 8:28 AM
To: Gayle Foord
Subject: 1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299]
Attachments: C-147 1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299] 02.07.2024.pdf

1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299]

Good morning Ms. Foord,

NMOCD has reviewed the cessation of operations extension request for 1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299] received from [331255] Crockett Operating, LLC 01/29/2024 Application ID 309241. The extension of the cessation of operations is approved with the following conditions of approval:

- 1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299] extension of cessation of operations is approved from 01/30/2024 to 07/30/2024. Per NMAC 19.15.34.13.C extensions are considered for a maximum length of six months. **However, if after this 6-month period, the containment was not utilized at a minimum of 20% fluid capacity, no additional extensions would be granted, and the operator would be directed to remove all fluids and proceed with the closure requirements.**
- [331255] Crockett Operating, LLC will maintain a liquid level in the containment that is at least equal to the weight of the liner plus 20%. [331255] Crockett Operating, LLC may maintain a higher liquid level if they choose.
- [331255] Crockett Operating, LLC will provide written notice to [OCD Online](#) at least 72 hours, but no more than one week, prior to the recommencement of operations. Recommencement of recycling operations means that the operator plans to resume moving fluids through the containment and discharging fluids from the containment.
 - At the resumption of recycling operations, [331255] Crockett Operating, LLC is required to perform an incremental fluid level test for containment liquid levels above the minimum liquid level.
 - [331255] Crockett Operating, LLC will fill the containment [331255] Crockett Operating, LLC will pause filling operations at every 10% of total fluid capacity above the minimum level.
 - [331255] Crockett Operating, LLC will maintain the liquid level for each 10% volume increase for 24 hours and inspect and operate the leak detection system at the end of the 24-hour period.
 - If there are no liquids present in the leak detection system, [331255] Crockett Operating, LLC may proceed to fill the next 10% volume and repeat the process until the containment full design capacity minus the 3-feet of freeboard is reached.
 - If liquids are present, [331255] Crockett Operating, LLC should immediately cease the incremental fill test and perform a liner inspection. [331255] Crockett Operating, LLC should provide written notice of the fluid detection and liner inspection findings to OCD via [OCD Online](#) using a C-147 (long form) with the "Other" box checked and "Notice of fluid detection" written as the explanation of "Other."
 - Upon notification of fluid detection in the leak detection system, the OCD will verify the source of water (condensation versus produced water).
 - If the detected fluid is confirmed to be condensation, the OCD will issue a written approval to proceed with the incremental fluid level test.
 - If the detected fluid is confirmed to be produced water, [331255] Crockett Operating, LLC must comply with 19.15.34.13 NMAC. [331255] Crockett Operating, LLC must provide written notification to [OCD Online](#) on the actions taken to comply with 19.15.34.13 NMAC.
 - After fluid is detected in the leak detection system, the incremental fill test cannot continue until after a written approval to proceed is issued by the OCD.
 - [331255] Crockett Operating, LLC must submit copies of the detailed containment inspection records for the prior three months and a report detailing the incremental fluid level test process and results through

the [OCD Online](#) system using a C-147 (long form) with the "Other" box checked. "Recommendation of Operations - Incremental Fluid Level Test" should be written as the explanation of "Other." Form C-147 must be completed and include information in sections 1 General Information, 2 Recycling Facility, 3 Recycling Containment, 4 Bonding, and 10 Operator Application Certification. Section 9 Recycling Facility and/or Containment Checklist may also need to be partially completed. Operators should verify that the resumption of operations notification does not result in any changes to the recycling containment operating and maintenance plan or the closure plan. If the recommendation of operations will affect the operating and maintenance plan or closure plan, operators should check those boxes in section 9 and provide updated plans or plan addendums as attachments to the C-147.

- [331255] Crockett Operating, LLC will continue to operate, maintain, and close 1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299] in compliance with 19.15.34 NMAC, to include but not limited detailed inspection records, removal of trash/oil from containment, and monthly C-148 reporting (even if there is zero activity).
- A minimum of 3-feet freeboard must always be maintained in the recycling containment during operations.

Please let me know if you have any other questions.

Regards,

Victoria Venegas • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. Artesia, NM 88210

(575) 909-0269 | Victoria.Venegas@emnrd.nm.gov

<https://www.emnrd.nm.gov/ocd/>



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 309241

CONDITIONS

Operator: Crockett Operating, LLC 1101 N. Little School Rd Arlington, TX 76017	OGRID: 331255
	Action Number: 309241
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	• 1RF-489 - VADER FRAC PITS FACILITY ID [fVV2219555299] extension of cessation of operations is approved from 01/30/2024 to 07/30/2024. However, if after this 6-month period, the containment was not utilized at a minimum of 20% fluid capacity, no additional extensions would be granted, and the operator would be directed to remove all fluids and proceed with the closure requirements.	2/8/2024