

From: Tucker, Shelly
To: KikiL@t5energy.com
Cc: [Tony Tucker](#); [Ruben Colchado](#); [Bratcher, Mike, EMNRD](#); [Weaver, Crystal, EMNRD](#)
Subject: Re: Creek Spill
Date: Thursday, February 9, 2017 10:41:42 AM

These are fine via email.

We never received the copies in the mail.

I will pull the violation letter I had prepared for this morning. I will send you a copy of the BLM regulations pertaining to spills and releases so that you will understand the reporting requirements.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular
575.234.6235 - Emergency Spill Number

stucker@blm.gov

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Thu, Feb 9, 2017 at 9:53 AM, Kiki Lockett <KikiL@t5energy.com> wrote:

| GM...

I will FedEx these forms today...I previously sent the C141 regular mail to Jim as he instructed.

Let me know if you need anything else...



Thanks,

L. Kiki Lockett

HSE, Regulatory & Compliance Specialist

Triple Five Energy Resources LLC

Galleria Tower I

2700 Post Oak Blvd | Suite 1000 | Houston, Texas 77056

P [713.987.7326](tel:713.987.7326) | F [713.364.7820](tel:713.364.7820)

KikiL@T5Energy.com

www.T5Energy.com

From: Tony Tucker
To: [Weaver, Crystal, EMNRD](#)
Subject: FW: Re: Creek Federal Spill
Date: Thursday, February 23, 2017 11:03:15 AM
Attachments: [image001.png](#)
[Tandem Energy - OCD Letter - creek federal spill 2RP-4119.pdf](#)
[\(sketch\) Tandem Energy -Creek Federal Spill 1-23-17.PDF](#)
[Tandem Energy Loco Hills NM -Federal Creek PBLAB Analysis 1-31-17.pdf](#)

Crystal,

I have no Idea where the December date came in. We found and reported to the BLM on Jan 10th.

From: k.freeman@aspengrow.us [mailto:k.freeman@aspengrow.us]
Sent: Thursday, February 23, 2017 9:29 AM
To: Tony Tucker <tonyt@t5energy.com>
Subject: RE: Re: Creek Federal Spill

Tony,
I addressed the letter response from Crystal Weaver at the OCD. I feel we need to send her the Lab Analysis , the sketch and the letter with a plan of action for this spill. Please review the letter and let me know your input.

Kevin Freeman
Aspen Grow LLC.
3001 West Loop 250 N.
Ste. C 105-166
Midland, Texas 79705
210-213-0397 (c)



----- Original Message -----

Subject: Re: Creek Federal Spill
From: "Tony Tucker" <tonyt@t5energy.com>
Date: 2/16/17 11:34 am
To: mike.bratcher@state.nm.us, crystal.weaver@state.nm.us, stucker@blm.gov
Cc: "Ruben Colchado" <rubenc@t5energy.com>, KikiL@T5Energy.com, "David Trant" <davidt@t5energy.com>, "Marc Ramirez" <MarcR@T5Energy.com>, k.freeman@aspengrow.us

Mike,
Attached you will find Tandem Energy's work plan for remediation of the Creek

Federal #2 Spill, as well as a site diagram of the impacted area & the initial analyticals. Please review and notify me of approval.

Thank You!



Tony Tucker

District Superintendent

Triple Five Energy Resources

1424 Blue Stem Road

Loco Hills New Mexico 88255

(575) 703-8283

tonyt@t5energy.com

From: [Weaver, Crystal, EMNRD](#)
To: [Tony Tucker](#)
Subject: RE: Re: Creek Federal Spill
Date: Thursday, February 23, 2017 12:27:00 PM

Thanks Tony I added the info to your C-141 original document.

From: Tony Tucker [mailto:tonyt@t5energy.com]
Sent: Thursday, February 23, 2017 11:03 AM
To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>
Subject: FW: Re: Creek Federal Spill

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Cc: "Ruben Colchado" <rubenc@t5energy.com>, KikiL@T5Energy.com, "David

Trant" <davidt@t5energy.com>, "Marc Ramirez" <MarcR@T5Energy.com>, k.freeman@aspengrow.us

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Thank You!



Tony Tucker

District Superintendent
Triple Five Energy Resources
1424 Blue Stem Road
Loco Hills New Mexico 88255
(575) 703-8283
tonyt@t5energy.com

From: Tony Tucker
To: [Weaver, Crystal, EMNRD](#)
Subject: Re: Creek Federal Spill
Date: Thursday, February 23, 2017 12:45:32 PM

Thank you. I just spoke with Shelly. She was typing up COAs for her approval. I spoke to Kevin with Aspen. We set up a week from today to delineate. Is delineation of chlorides sufficient?

Sent from my iPhone

On Feb 23, 2017, at 12:27 PM, Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us> wrote:

Thanks Tony I added the info to your C-141 original document.

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Sent: Thursday, February 23, 2017 11:03 AM
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Kevin Freeman
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<image001.gif>

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From: "Tony Tucker" <tonyt@t5energy.com>

Date: 2/16/17 11:34 am

To: mike.bratcher@state.nm.us, crystal.weaver@state.nm.us,
stucker@blm.gov

Cc: "Ruben Colchado" <rubenc@t5energy.com>,
KikiL@T5Energy.com, "David Trant" <davidt@t5energy.com>, "Marc
Ramirez" <MarcR@T5Energy.com>, k.freeman@aspengrow.us

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the initial analyticals. Please review and notify me of approval.

Thank You!

<image002.jpg>

www.T5Energy.com

Tony Tucker

District Superintendent

Triple Five Energy Resources

1424 Blue Stem Road

Loco Hills New Mexico 88255

(575) 703-8283

tonyt@t5energy.com

From: Tucker, Shelly
To: [Tony Tucker](#)
Cc: [Bratcher, Mike, EMNRD](#); [Weaver, Crystal, EMNRD](#); [Ruben Colchado](#); [Kikil@t5energy.com](#); [David Trant](#); [Marc Ramirez](#); [k.freeman@aspengrow.us](#)
Subject: Re: Creek Federal Spill
Date: Thursday, February 23, 2017 12:58:21 PM
Attachments: [image.png](#)

BLM approves your submitted proposal with the following stipulations:

1. The top 4' of surface will need to reach RRALs or below before closure will be granted.
2. The area of impact is located in Lessor Prairie Chicken (Habitat Evaluation Area) and Sand Dune Lizard habitat, timing stipulations will apply.
3. A corrected C-141 and Sundry needs to be submitted stating the release impacted the pasture. It currently states that it "did not" impact pasture. According to the diagram and submitted pictures, off location was impacted.
4. The impacted area will need to be reseeded with BLM Seed Mix 2 - LPC, if vegetation does not reestablish.
5. Due to Tandem not being a member of the PA, and the area not having a recorded survey, the area will need to be surveyed for the presence of archaeology artifacts. That survey will need to be submitted to the BLM for record.



6. Like approval from the NMOCD will be required.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

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On Thu, Feb 16, 2017 at 10:34 AM, Tony Tucker <tonyt@t5energy.com> wrote:

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Attached you will find Tandem Energy's work plan for remediation of the Creek Federal #2 Spill, as well as a site diagram of the impacted area & the initial analyticals. Please review and notify me of approval.

Thank You!

Tony Tucker

District Superintendent

Triple Five Energy Resources

1424 Blue Stem Road



www.T5Energy.com

Loco Hills New Mexico 88255

(575) 703-8283

tonyt@t5energy.com

From: [Weaver, Crystal, EMNRD](#)
To: [Tony Tucker](#)
Subject: RE: Creek Federal Spill
Date: Thursday, February 23, 2017 1:16:00 PM
Attachments: [Site Ranking cheat sheet.docx](#)

Hello Tony,

You are welcome.

The single delineation that you and I were talking about, on the phone yesterday, would need to be in the heart of the spill and it would need to be done to a depth of where all contaminants (Benzene, total BTEX, TPH and chlorides) show clean. Typically we ask for chlorides to be cleaned to what background levels are. So when you are doing your site samples you may want to include a background sample as one of your sample points which would be a sample that you would take that would be outside of your spill zone so that you can show what the natural existing levels of chlorides are at, but keep in mind your background sample needs to be at like depth (meaning the background sample depth has to match the depth at which your delineation shows clean).

For an overview of the delineation process let me try and give an example: Ok so let's say your TPH cleans up during your delineation at 2ft. then you are done testing TPH so then you pursue the others till they show clean, that way you know where your bottom is. Once you get your bottom for all contaminants and you show them clean you then do two more samples at 5ft intervals (for a total of 10ft) to prove it stays clean. Field screenings for the hydrocarbons with a PID along with field titrations for chlorides are ideal so you only send a few samples to the actual lab.

I attached a form that breaks down how we do our site ranking assessment so that you can give your site a ranking and then use your score you earn to figure out which level of Benzene, BTEX and TPH ppms you would then be required to clean up to.

If any of this sounds crazy or doesn't make sense just give me a call. I am a super wordy writer. Sorry for that.

Thank you,

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Tony Tucker [mailto:tonyt@t5energy.com]
Sent: Thursday, February 23, 2017 12:45 PM
To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>
Subject: Re: Creek Federal Spill

Thank you. I just spoke with Shelly. She was typing up COAs for her approval. I spoke to Kevin with Aspen. We set up a week from today to delineate. Is delineation of chlorides sufficient?

Sent from my iPhone

On Feb 23, 2017, at 12:27 PM, Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us> wrote:

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Subject: FW: Re: Creek Federal Spill

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Sent: Thursday, February 23, 2017 9:29 AM
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Subject: RE: Re: Creek Federal Spill

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Kevin Freeman
Aspen Grow LLC.
3001 West Loop 250 N.

Ste. C 105-166
Midland, Texas 79705
210-213-0397 (c)

<image001.gif>

----- Original Message -----

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Date: 2/16/17 11:34 am

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Cc: "Ruben Colchado" <rubenc@t5energy.com>,
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Creek Federal #2 Spill, as well as a site diagram of the impacted area &
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Thank You!

<image002.jpg>
www.T5Energy.com

Tony Tucker

District Superintendent

Triple Five Energy Resources

1424 Blue Stem Road

Loco Hills New Mexico 88255

(575) 703-8283

tonyt@t5energy.com

From: Tony Tucker
To: [Weaver, Crystal, EMNRD](#)
Subject: RE: Creek Federal Spill
Date: Monday, February 27, 2017 8:33:21 AM

Crystal,

We are going to have to perform an arch survey of the area around the Creek Fed before we can delineate and begin the remediation process. I started the ball rolling on the arch survey Friday. I will let you know when we begin delineation.

Thanks!

From: Weaver, Crystal, EMNRD [mailto:Crystal.Weaver@state.nm.us]
Sent: Wednesday, February 22, 2017 3:10 PM
To: Tony Tucker <tonyt@t5energy.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; stucker@blm.gov
Cc: 'Ruben Colchado' <rubenc@t5energy.com>; KikiL@T5Energy.com; 'David Trant' <davidt@t5energy.com>; 'Marc Ramirez' <MarcR@T5Energy.com>; k.freeman@aspengrow.us
Subject: RE: Creek Federal Spill

RE: Tadem Energy * Creek #2 * 30-015-04539 * 2RP-4119

Tony,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval. The OCD tracking number for this event is 2RP-4119.

Thank you,

Crystal Weaver

Environmental Specialist
OCD – Artesia District II
811 S. 1st Street
Artesia, NM 88210
Office: 575-748-1283 ext. 101
Cell: 575-840-5963
Fax: 575-748-9720

From: Tony Tucker [<mailto:tonyt@t5energy.com>]

Sent: Thursday, February 16, 2017 10:34 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; stucker@blm.gov

Cc: 'Ruben Colchado' <rubenc@t5energy.com>; KikiL@T5Energy.com; 'David Trant' <davidt@t5energy.com>; 'Marc Ramirez' <MarcR@T5Energy.com>; k.freeman@aspengrow.us

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Thank You!



Tony Tucker

District Superintendent

Triple Five Energy Resources

1424 Blue Stem Road

Loco Hills New Mexico 88255

(575) 703-8283

tonyt@t5energy.com

From: Tucker, Shelly
To: [Bratcher, Mike, EMNRD](#); [Weaver, Crystal, EMNRD](#)
Subject: Fwd: Another copy of the forms
Date: Thursday, February 9, 2017 11:08:27 AM
Attachments: [Scanned from a Xerox multifunction device.pdf](#)

Revised C-141. I don't believe they have informed you of the release.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

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----- Forwarded message -----

From: **Kiki Lockett** <KikiL@t5energy.com>
Date: Thu, Feb 9, 2017 at 10:55 AM
Subject: Another copy of the forms
To: "Tucker, Shelly" <stucker@blm.gov>

Tony wanted me to add that, "The spill didn't leave the location into the pasture"...

Can I see a copy of the violation letter or can you tell me what it says?

Again thanks for all of your help...

www.T5Energy.com

Thanks,

L. Kiki Lockett

HSE, Regulatory & Compliance Specialist

Triple Five Energy Resources LLC

Galleria Tower I

2700 Post Oak Blvd | Suite 1000 | Houston, Texas 77056

P 713.987.7326 | F 713.364.7820

KikiL@T5Energy.com

-----Original Message-----

From: relay@platenergy.com [mailto:relay@platenergy.com]

Sent: Thursday, February 09, 2017 12:25 PM

To: Kiki Lockett

Subject: Scanned from a Xerox multifunction device

Please open the attached document. It was scanned and sent to you using a Xerox multifunction device.

Sent by: Guest

Attachment File Type: pdf, Multi-Page

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No.
2. Name of Operator Tandem Energy		6. If Indian, Allottee or Tribe Name
3a. Address 2700 Post Oak Blvd. Ste. 1000 Houston TX. 77056	3b. Phone No. (include area code) 713-987-7326	7. If Unit of CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		8. Well Name and No. 002
		9. API Well No. 30-015-04539
		10. Field and Pool or Exploratory Area Lee TRVS Queen Grayburg SA
		11. Country or Parish, State Eddy

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Spill
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Livestock broke the leg off of gun barrel causing a leak of 700bbls of fluid from gun barrel. No fluid were recovered.

The affected area will be remediated + completed in accordance w/ A plan approved by both the NMDCD + BLM. The spill didnt leave the location into the pasture.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) L. Kiki Lockett		Title Reg. Anal.
Signature L. Lockett		Date 2/9/17

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Tandem Energy	Contact	L. Kiki Lockett
Address	2700 Post Oak Blvd. Ste. 100 Houston, TX 77056	Telephone No.	713-987-7326
Facility Name	Creek	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-04539

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	23	18S	30E	1650	N	1665	W	Eddy
Latitude				Longitude				

NATURE OF RELEASE

Type of Release	Oil + Produced water	Volume of Release	70 bbls	Volume Recovered	0
Source of Release	Livestock broke leg off of gun barrel	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Jim @ BLM				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Livestock broke the leg off of gun barrel causing a leak of 70 bbls of fluid from gun barrel. No fluids were recovered. The spill did not leave the location into the pasture.

Describe Area Affected and Cleanup Action Taken.*

The affected area will be remediated & completed in accordance w/ a plan approved by both the NMOCDD + BLM.

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

OIL CONSERVATION DIVISION

Signature:	L. Lockett		
Printed Name:	L. Kiki Lockett		
Title:	Reg. Anal.		
E-mail Address:	kiki.l@tandemenergy.com		
Date:	11/14/17	Phone:	713-987-7326
Approved by Environmental Specialist:		Approval Date:	Expiration Date:
Conditions of Approval:		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

From: Tony Tucker
To: [Bratcher, Mike, EMNRD](#); [Weaver, Crystal, EMNRD](#); stucker@blm.gov
Cc: ["Ruben Colchado"](#); Kikil@T5Energy.com; ["David Trant"](#); ["Marc Ramirez"](#); k.freeman@aspengrow.us
Subject: Re: Creek Federal Spill
Date: Thursday, February 16, 2017 10:34:31 AM
Attachments: [\(sketch\) Tandem Energy -Creek Federal Spill 1-23-17.pdf](#)
[Creek Federal #2 Tandem Energy work plan.pdf](#)
[Tandem Energy -Creek Federal #2 Spill Analytical Results 1-20-17.pdf](#)

Mike,

Attached you will find Tandem Energy's work plan for remediation of the Creek Federal #2 Spill, as well as a site diagram of the impacted area & the initial analyticals. Please review and notify me of approval.

Thank You!



Tony Tucker

District Superintendent

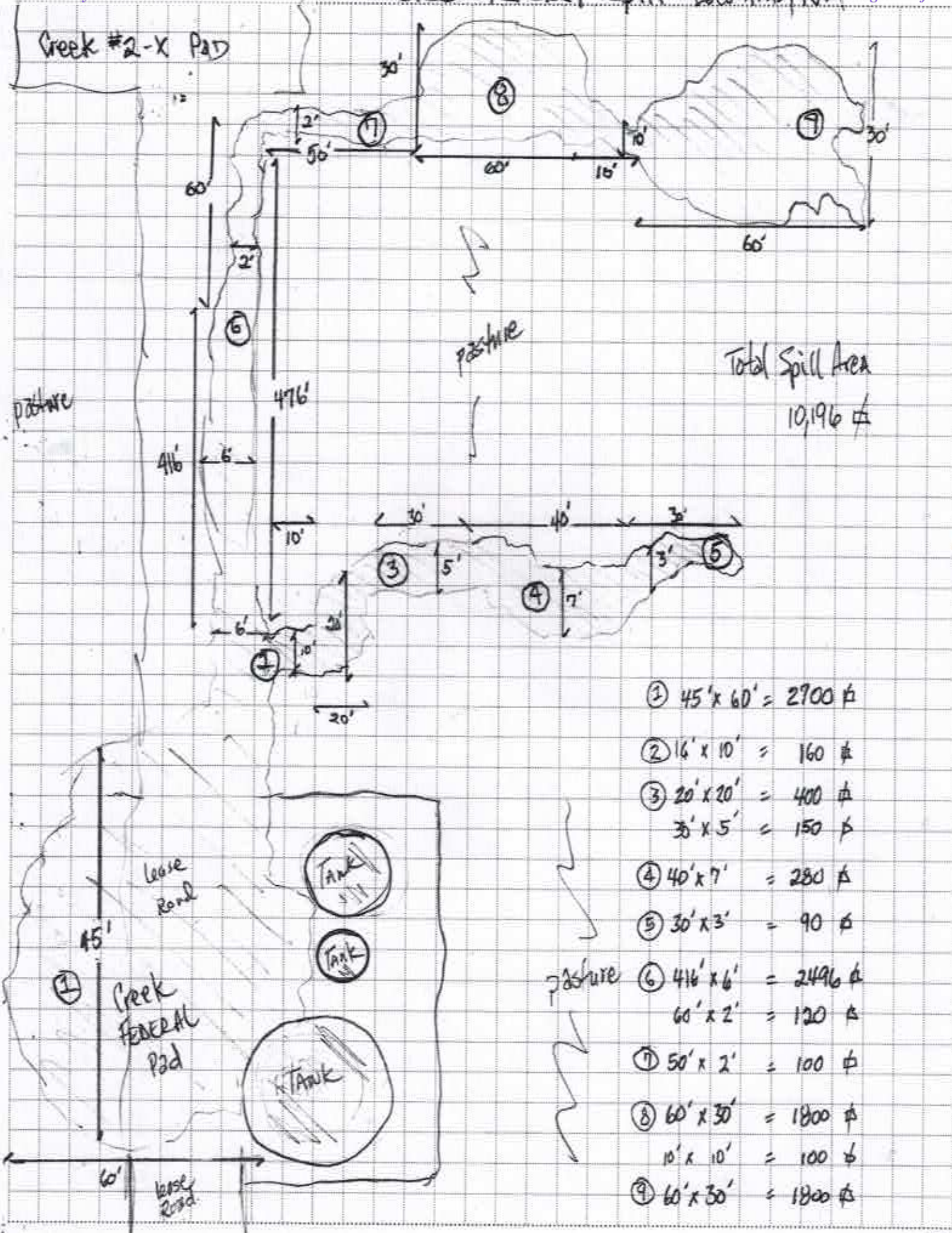
Triple Five Energy Resources

1424 Blue Stem Road

Loco Hills New Mexico 88255

(575) 703-8283

tonyt@t5energy.com



TANDEM ENERGY CORPORATION

February 14, 2017

Mike Bratcher

**New Mexico Energy, Minerals & Natural Resources Oil Conservation Division,
Environmental Bureau - District 2**

811 S. First St.

Artesia, NM 882L0

RE: Work Plan

Tandem Energy Corporation. – Federal Creek Well #2

SW/4 of NW/4 S23 T18S R30E

Mr. Bratcher

The above location is located approximately 5.7 miles east of Loco Hills, New Mexico on Highway 82, then 5 miles south of FM 222, then 4 miles west on lease road to the Creek Federal Well #2 location, this area has no known groundwater.

In December, 2016, a release was discovered a release of 28 barrels' crude oil and 42 barrels of produced water. The release occurred when the tank flow pipe was broken off by livestock rubbing up against the pipe. The BLM and the NMOCD were both notified of the release on December, 2016 with the initial C-141 being filed later that same day.

Corrective Action Plan

On January 23, 2017, Tandem Energy Corporation sampled the impacted area, and took the samples to an accredited lab for analytical analysis. To remediate the impacted soil, Tandem Energy Corporation enlisted the services of Aspen Grow LLC. to apply Probiotic compounds to the impacted area. The probiotics will be applied with fresh water to the impacted area on a continual drip system for four to six weeks. In that time the probiotics and the fresh water will be able to begin remediating the hydrocarbons and chlorides in the impacted area. The impacted area will be sampled at the end of the probiotic application. Pending the results of the analytical, further application could be required.

TANDEM ENERGY CORPORATION

February 14, 2017

Following the approval of the plan, Tandem Energy Corporation will begin remediating the impacted area to Regulatory standards.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

Tony Tucker
Tandem Energy Corporation
Loco Hills, NM 88255
(575)-703-8283
Email: tonyt@t5energy.com

TANDEM ENERGY CORPORATION

Location: Creek Federal

Page: |

Table 1 - Analytical Results

Date	Sample ID	Depth	Chloride	TPH - GRO	TPH - DRO	TPH-Total	Benzene	Toluene	Ethylbenzene	Xylene
1/20/2017	7A24001-01	0-1	332			136	ND	ND	ND	ND
1/20/2017	7A24001-02	1-2	188							
1/20/2017	7A24001-03	2-3	5.15							
1/20/2017	7A24001-04	3-4	2.61							
1/20/2017	7A24001-05	4-5	2.85							
1/20/2017	7A24001-06	0-1	1060			346	ND	ND	ND	0.00288
1/20/2017	7A24001-07	0-1	2140			5820	0.163	5.55	19.3	
1/20/2017	7A24001-08	1-2	19.6							
1/20/2017	7A24001-09	2-3	2.46							
1/20/2017	7A24001-10	3-4	3.73							
1/20/2017	7A24001-11	4-5	2.38							
1/20/2017	7A24001-12	0-1	2.9			534	ND	0.241	0.986	0.995

TANDEM ENERGY CORPORATION

Location: FEDERAL CREEKPage: 2

Table 1 - Analytical Results

Date	Sample ID	Depth	Chloride	TPH - GRO	TPH - DRO	TPH-Total	Benzene	Toluene	Ethylbenzene	Xylene	BTEX
1/20/2017	7A24001-16	0-1	4.53			9180	0.0651	10.8	23.7	15.5	87.265
1/20/2017	7A24001-17	1-2	4.19			4170	ND	0.62	3.22	1.69	10.22
1/20/2017	7A24001-18	0-1	1290			1970	ND	0.016	0.375	0.0805	0.6595
1/20/2017	7A24001-19	0-1	596			8590	0.0771	10.2	21.5	13.3	76.777
1/20/2017	7A24001-20	1-2	6.14			495	ND	0.00552	0.0498	0.0525	0.2158
1/20/2017	7A24001-21	2-3	8.64								
1/20/2017	7A24001-22	3-4	2.93								
1/20/2017	7A24001-23	4-5	2.45								
1/20/2017	7A24001-24	0-1	8.5			6930	0.295	24.7	34.2	19.8	127.495
1/20/2017	7A24001-25	1-2	4.35			2670	0.0338	2.57	4.39	2.68	15.703
1/20/2017	7A24001-26	2-3	2.53								
1/20/2017	7A24001-27	3-4	3.54								

Page: 3

Table 1 - Analytical Results

[illegible]

remediation cost	Cost
Product Application	\$29,686.29
Soil Sample Testing / lab cost	\$2,091.03
Soil Samples / Labor	\$873.47
total	<u>\$32,650.79</u>

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 14 2017

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

Form C-141
Revised August 8, 2011

RECEIVED

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

Release Notification and Corrective Action

NAB1704751648

Name of Company <u>Tandem Energy</u>		Contact <u>L. Kiki Lockett</u>	<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report
Address <u>2700 Post Oak Blvd. Ste 100</u>		Telephone No. <u>713-987-7326</u>	
Facility Name <u>Creek</u>		Facility Type <u>Well</u>	
Surface Owner <u>BLM</u>	Mineral Owner	API No. <u>30-015-04539</u>	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<u>F</u>	<u>23</u>	<u>18S</u>	<u>30E</u>	<u>1650</u>	<u>N</u>	<u>1665</u>	<u>W</u>	<u>Eddy</u>

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release <u>Oil + Produced water</u>	Volume of Release <u>70 bbls</u>	Volume Recovered <u>0</u>
Source of Release <u>Livestock broke leg off of gun barrel</u>	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Jim @ BLM</u>	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Livestock broke the leg off of gun barrel causing a leak of 70 bbls of fluid from gun barrel. No fluids were recovered. The spill did not leave the location into the pasture.

Describe Area Affected and Cleanup Action Taken.*

The affected area will be remediated & completed in accordance w/ a plan approved by both the NMOCDD & BLM.

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

Signature: <u>L. Lockett</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>L. Kiki Lockett</u>	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: <u>Reg. Anal.</u>	Approval Date: <u>2/16/17</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>kiki1@t5energy.com</u>	Conditions of Approval: <u>See attached</u>	Attached <input type="checkbox"/>
Date: <u>1/14/17</u>	Phone: <u>713-987-7326</u>	

* Attach Additional Sheets If Necessary

2RP-4119

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/14/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number ARD-4119 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 3/29/17.** If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Inge, Richard, EMNRD
Sent: Tuesday, February 14, 2017 2:59 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Cc: 'KikiL@T5Energy.com'
Subject: FW: Spill
Attachments: Scanned from a Xerox multifunction device.pdf

Mike,

FYI

--Richard

-----Original Message-----

From: Kiki Lockett [mailto:KikiL@T5Energy.com]
Sent: Tuesday, February 14, 2017 9:47 AM
To: Inge, Richard, EMNRD <richard.inge@state.nm.us>; Keyes, Jamie, EMNRD <Jamie.Keyes@state.nm.us>
Subject: Spill

Please let me know of you need anything else...Thx

www.T5Energy.com

Thanks,

L. Kiki Lockett

HSE, Regulatory & Compliance Specialist

Triple Five Energy Resources LLC

Galleria Tower I

2700 Post Oak Blvd | Suite 1000 | Houston, Texas 77056 P 713.987.7326 | F 713.364.7820 KikiL@T5Energy.com

From: [Weaver, Crystal, EMNRD](#)
To: [Tony Tucker](#); [Bratcher, Mike, EMNRD](#); stucker@blm.gov
Cc: ["Ruben Colchado"](#); KikiL@T5Energy.com; ["David Trant"](#); ["Marc Ramirez"](#); k.freeman@aspengrow.us
Subject: RE: Creek Federal Spill
Date: Wednesday, February 22, 2017 2:09:00 PM
Attachments: [1. 4119 - COAs & signed C-141 intial.pdf](#)

RE: Tadem Energy * Creek #2 * 30-015-04539 * 2RP-4119

Tony,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval. The OCD tracking number for this event is 2RP-4119.

Thank you,

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Tony Tucker [mailto:tonyt@t5energy.com]
Sent: Thursday, February 16, 2017 10:34 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; stucker@blm.gov
Cc: 'Ruben Colchado' <rubenc@t5energy.com>; KikiL@T5Energy.com; 'David Trant' <davidt@t5energy.com>; 'Marc Ramirez' <MarcR@T5Energy.com>; k.freeman@aspengrow.us
Subject: Re: Creek Federal Spill

Mike,

Attached you will find Tandem Energy's work plan for remediation of the Creek Federal #2 Spill, as well as a site diagram of the impacted area & the initial analyticals. Please review and notify me of approval.

Thank You!

|



Tony Tucker

District Superintendent
Triple Five Energy Resources
1424 Blue Stem Road
Loco Hills New Mexico 88255
(575) 703-8283
tonyt@t5energy.com

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
District III
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 384208

CONDITIONS

Operator: OLEUM Energy LLC 2955 Dawn Dr Georgetown, TX 78628	OGRID: 329493
	Action Number: 384208
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	9/17/2024