

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCB Hobbs
HOBSOCD

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

FEB 12 2015

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.

RECEIVED

5. Lease Serial No.
NMLC-061863-A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.
TRIONYX 6 FED #5H & #6H

2. Name of Operator

DEVON ENERGY PRODUCTION CO. LP CONTACT: AL HUNT al.hunt@bosquesystems.com

9. API Well No.
30-025-40045 & 30-025-40046

3a. Address

333 WEST SHERIDAN AVE., OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

817-653-1583

10. Field and Pool or Exploratory Area
COTTON DRAW, BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

TRIONYX 6 FED #5H - SEC. 6 T25S R32E SW/4 SE/4 200FSL 2310FEL
TRIONYX 6 FED #6H - SEC. 6 T25S R32E SW/4 SE/4 200FSL 2260FEL

11. County or Parish, State
LEA COUNTY, NM

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"/> Fracture Treat	<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 _____	
	<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 recomplete 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 recompletion 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 determined that the site is ready for final inspection.)

DEVON ENERGY PRODUCTION COMPANY, L.P. WOULD LIKE TO ALLOW BOSQUE DISPOSAL SYSTEMS L.L.C. TO INSTALL A TANK ON THE TRIONYX 6 FED #5H & 6H WELL PAD LOCATED IN THE SE/4 SW/4 OF SECTION 6, T25S-R32E. THIS TANK WILL COLLECT PRODUCED WATER FROM THE WELLS WITHIN THE COTTON DRAW AND REUSE THE WATER TO FRAC WELLS WITHIN THE COTTON DRAW.

THE WELL PAD WILL NEED TO BE INCREASED BY 2420 SQUARE FEET TO THE EASTERN DIRECTION, BY 100 FEET, TO ACCOMMODATE THIS TANK.

ATTACHED TO THIS SUNDRY ARE PLATS OF THE WELL PAD, SITE PLANS, AND PIPELINES. ALSO ATTACHED IS A DETAILED PLAN AND SPECIFICATIONS FOR REUSING THE PRODUCED WATER.

Approved for 12 months. Lachradahal 1/30/15

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
AL HUNT

Title COMPANY ENVIRONMENTAL SPECIALIST FOR BOSQUE SYSTEMS

Signature

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Stephen J Caffey

Title

STEPHEN J. CAFFEY

Date

1/29/15

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.

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)

FEB 12 2015

hm

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

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.

5. Lease Serial No.
NMLC-061863-A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
TRIONYX 6 FED #5H & #6H

2. Name of Operator
DEVON ENERGY PRODUCTION CO. LP CONTACT: AL HUNT al.hunt@bosquesystems.com

9. API Well No.
30-025-40045 & 30-025-40046

3a. Address
333 WEST SHERIDAN AVE., OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)
817-653-1583

10. Field and Pool or Exploratory Area
COTTON DRAW, BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
TRIONYX 6 FED #5H - SEC. 6 T25S R32E SW/4 SE/4 200FSL 2310FEL
TRIONYX 6 FED #6H - SEC. 6 T25S R32E SW/4 SE/4 200FSL 2260FEL

11. County or Parish, State
LEA COUNTY, NM

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"/> Fracture Treat	<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 _____	
	<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 recomplate 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 recomplate 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 determined that the site is ready for final inspection.)

DEVON ENERGY PRODUCTION COMPANY, L.P. WOULD LIKE TO ALLOW BOSQUE DISPOSAL SYSTEMS L.L.C. TO INSTALL A TANK ON THE TRIONYX 6 FED #5H & 6H WELL PAD LOCATED IN THE SE/4 SW/4 OF SECTION 6, T25S-R32E. THIS TANK WILL COLLECT PRODUCED WATER FROM THE WELLS WITHIN THE COTTON DRAW AND REUSE THE WATER TO FRAC WELLS WITHIN THE COTTON DRAW.

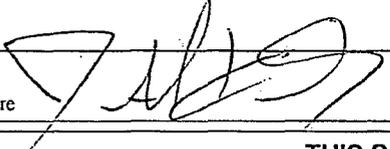
THE WELL PAD WILL NEED TO BE INCREASED BY 2420 SQUARE FEET TO THE EASTERN DIRECTION, BY 100 FEET, TO ACCOMMODATE THIS TANK.

ATTACHED TO THIS SUNDRY ARE PLATS OF THE WELL PAD, SITE PLANS, AND PIPELINES. ALSO ATTACHED IS A DETAILED PLAN AND SPECIFICATIONS FOR REUSING THE PRODUCED WATER.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
AL HUNT

Title COMPANY ENVIRONMENTAL SPECIALIST FOR BOSQUE SYSTEMS

Signature



Date

12-2-14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

For FIELD MANAGER
Title CARLSBAD FIELD OFFICE
Date 2/3/15
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.

Table of Contents

1 Introduction and Overview 3

 1.1. Objective of Project..... 3

 1.2. Description of project..... 3

 1.3. Location of Project 3

 1.4. Duration of project is 12 Months..... 3

 1.5. Reclamation once project is completed..... 3

2 Water Monitoring 4

 2.1. Type and Frequency..... 4

 2.2. Independent Water Testing Lab 4

3 Water Transfer Operations 4

 3.1. Transfer Piping Placement Methods 4

 3.2. Piping Materials 4

4 Equipment..... 4

 4.1. Large Open-Top Water Storage Tanks..... 4

 4.2. BAT Tank liner 5

 4.3. Frac Tank Containment / Tertiary Tank Containment..... 5

 4.4. BAT Tank Bird Netting 5

 4.5. BAT Tank Installation Sequence; Bottom-Up..... 6

 4.6. FRACTanks 6

 4.7. Water Transfer Equipment..... 6

 4.8. Other Equipment..... 6

5 Pumps & Filtering Operations..... 6

 5.1. Transfer Pumps 6

 5.2. FilterPods 7

 5.3. Filter Socks 7

6 Risk Management Plan 7

 6.1. Complete Project Risk Register..... 7

 6.2. Tank Leaks..... 7



6.3. Piping / Hose Leaks	7
7. Bosque Systems / Point of Contact	8
7.1. Project Team.....	8
7.2. Contact for Escalation of Issues / Concerns	8

1. Introduction and Overview

1.1. Objective of Project

Bosque Systems will partner with Devon to provide water conservation for E&P activities via water treatment and water reuse methods.

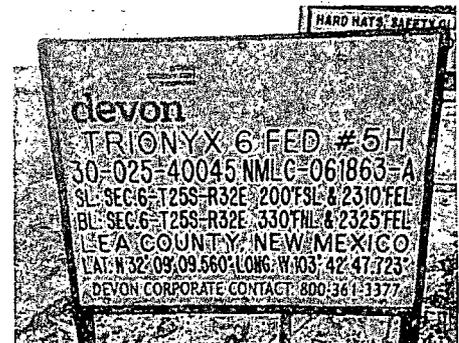
1.2 Description of project

Bosque will erect two above ground storage tanks in the Devon Leasehold of the Cotton Draw in SE New Mexico. Produced water will be transferred from existing Devon underground pipeline and Devon SWD's to above-ground tanks. The produced water will be transferred from above ground tanks to frac locations in Cotton Draw unit for completion of Oil and Gas wells listed on appendix 12.

Approximately 2.5 million barrels of fresh water saved over next 12 months.

1.3 Location of Project (Attachment 12,3)

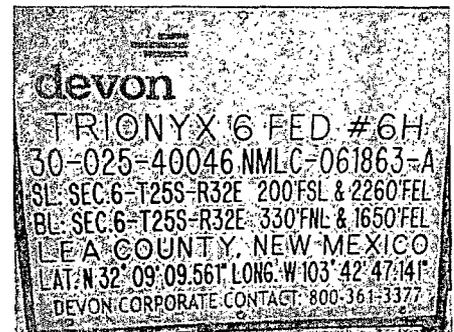
The project is co-located on Devon's leasehold in New Mexico. The surrounding terrain is typical, sandy with mesquite trees and cactus. Because Bosque is locating the water storage tanks on existing Devon well pad, the Trionyx 6 Fed #5H and #6H, it is anticipated that little or no additional disruption to the existing natural habitat will take place.



1.4 Duration of project is 12 Months

1.5 Reclamation once project is completed

All tanks and equipment will be removed from existing Devon locations and pads will under Devon reclamation procedures.



2. Water Monitoring

2.1. Type and Frequency (Attachment 10)

Bosque personnel will be monitoring the water daily. The water will be analyzed by an independent lab weekly. Copies of test results are available upon written request.

2.2. Independent Water Testing Labs

Mitchell Analytical Laboratory Inc. 2638
Faundree Rd.
Midland, TX 79701
432-561-5579

Permian Basin Environmental Lab, LP
1014 S. County Road 1213
Midland, TX 79706
432-686-7235

3. Water Transfer Operations

3.1. Transfer Piping Placement Methods

All hoses and pipes are surface laid within 5-10' of roads or paths. Road crossings are accomplished with the appropriate ramp system for the material type or trenched into the road surface and covered with dirt for protection. The maximum pressure will be 125 psi, well under the material ratings.

3.2. Piping Materials

Produced water is transferred to completion locations by utilizing leak proof 8" lay-flat hose. Produced water to fill above ground tanks will be transferred by utilizing leak proof 4" poly pipe.

4. Equipment

4.1. Large Open-Top Water Storage Tanks (Attachment 4, 6)

The two Bosque Aqua Tanks, aka "BAT" tanks are manufactured by Extreme Plastics Plus under the product name "EPIC 360" (<http://extremeplasticsplus.com/epic-360>). The

tanks are designed to hold approximately 40,000 barrels of water with 2' of freeboard at the tank wall. The tank measures a 153' diameter with a 12' wall height.

The tank, liner and bird netting will be installed by the supplier's certified installers under Bosque System supervision.

4.2. BATTank Liner (Attachment 7)

The liner includes a double-lined system with (2) 60 MM LLDPE textured geo- membrane liners.

4.3. Frac Tank Containment/ Tertiary BAT Containment (Attachment 6, 8, 9?)

Containment for frac tanks as well as tertiary containment for above ground tank will be 40 MM LLDPE textured geo-membrane. The berm dimensions are 9.5" x 10' length.

4.4. BATTank Bird Netting

Bosque Systems will utilize the OEM bird net system provided and installed by the BAT tank supplier. Bosque confirms that this system complies with the BLM bird net requirements.

Bird Netting / BLM Requirements

Bosque Systems will prevent humans, wildlife (including avian wildlife), and livestock access to fluid pits that contain or have potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will install approved netting over reserve pits containing fluid in accordance with the requirements below:

- 1. Construct a rigid structure made of steel tubing or wooden posts with cable strung across the pit at no more than seven (7) foot intervals along the X- and Y-axes to form a grid of 7 foot squares.*
- 2. Suspend netting a minimum of 2 feet above the fluid surface.*
- 3. Use a maximum netting mesh size of 1 x 1 inches to exclude most birds.*
- 4. Monitor and maintain the netting sufficiently to ensure the netting is functioning as intended, has not entrapped wildlife, and is free of holes and gaps greater than 1 x 1 inches.*
- 5. Use flags or tags to help make the net visible over the surface of the pond.*

4.5. BAT Tank Installation Sequence; Bottom-Up (Attachment 11)

- 40 MIL Liner for containment
- Geotextile padding
- 60 MIL Tank Liner
- Geotextile padding
- 60 MIL Tank Liner
- Geotextile padding and tank liners are rolled up to the middle
- BAT Tank is set up on top of containment liner
- Geotextile padding and tank liners are pulled up tank walls and secured
- Tank containment perimeter is closed with prefabricated berm material

4.6. FRAC Tanks (Attachment 4)

A total of 7 frac tanks will be utilized at each above ground tank. 4 will be used if it is necessary to offload produced water via truck. The other 3 will be used to store fresh water to pressure test water transfer lines.

4.7. Water Transfer Equipment

- 4x6 transfer pump
- 8x10 transfer pump
- 50' of 4" steel braided hose
- 40' of 6' steel braided suction hose

4.8. Other Equipment

- (1) Trailer mounted filter pod
- Stationary filter pod
- light Plants

5. Pumps & Filtering Operations

5.1. All 8x10 transfer pumps will have 8" leak-proof victaulic connections. All 4x6 transfer pumps will use leak proof cam-lock connections. The distance between pumps can vary from 0.6 mile to 10 mile. All transfer pumps will be placed on containment.

5.2. Filter pods will be leak proof and placed on containment. Filtering will range from 5-30 microns. Materials expected to be filtered out of water are listed below:

- Iron Carbonate
- Iron Sulfide
- Iron Oxide
- Calcium Sulfate
- Frac Sand
- Gel

5.3. Filter Socks

Used socks will be stored in leak proof 55 gallon approved poly drums and disposed of at a state approved waste location.

6. Risk Management Plan

6.1. Complete Project Risk Register (Attachment 5)

6.2. Tank Leaks

BAT tanks are manned 24/7 and inspections for leaks are performed at a minimum of once an hour. During hourly inspections, tertiary containment will be checked to verify that no residual water has leaked from double lined above ground tank.

Inspection will also include checking tank levels to verify no leak has occurred that has not been detected in tertiary containment. If a leak has occurred it will be contained in tertiary containment at which point we would pump it into the Devon PW pipeline to approved SWD or suck water out with a vac truck and haul it to an approved SWD. The tank would be completely emptied and all necessary repairs made. If at any point produced water is released onto ground BLM representative would be notified. Soil samples will be taken and any necessary remediation will be performed.

6.3. Piping /Hose Leaks

Water transfer operation pressures are kept under 125 psi; under the material ratings for the systems used. All lines are pressure tested with fresh-water and observed closely for indications of leaks. The lines are manned and monitored during transfer operations. In the event a leak or spill occurs: valves are closed to isolate leak, containment is placed to limit fluid migration and a vacuum truck is used to recover the fluids and transfer to an SWD. If at any point produced water is released onto the ground



BLM representative would be notified. Soil samples will be taken and any necessary remediation will be performed.

7. Bosque Systems/Point of Contact

7.1. Project Team

NAME	ROLE/TITLE	PHONE	EMAIL
Casey Summers	Project Manager	575-430-7970	casey.summers@bosquesystems.com
Nathan Howard	HSE Safety	325-627-3066	nathan.howard@bosquesystems.com
Wayne Cook	Water Testing	432-208-1834	wayne.cook@bosquesystems.com
David McNair	Tank Operations	325-338-9221	david.mcnair@bosquesystems.com

7.2. Contact for Escalation of Issues/Concerns

Phillip Boren, VP Operations, 405-568-8313, phillip.boren@bosquesystems.com

8. Appendices

Appendix 1: Map, All

Appendix 2: Equipment Layout

Appendix 3: Risk Management Register

Appendix 4: BATTank Data

Appendix 5: Tank Liner Data

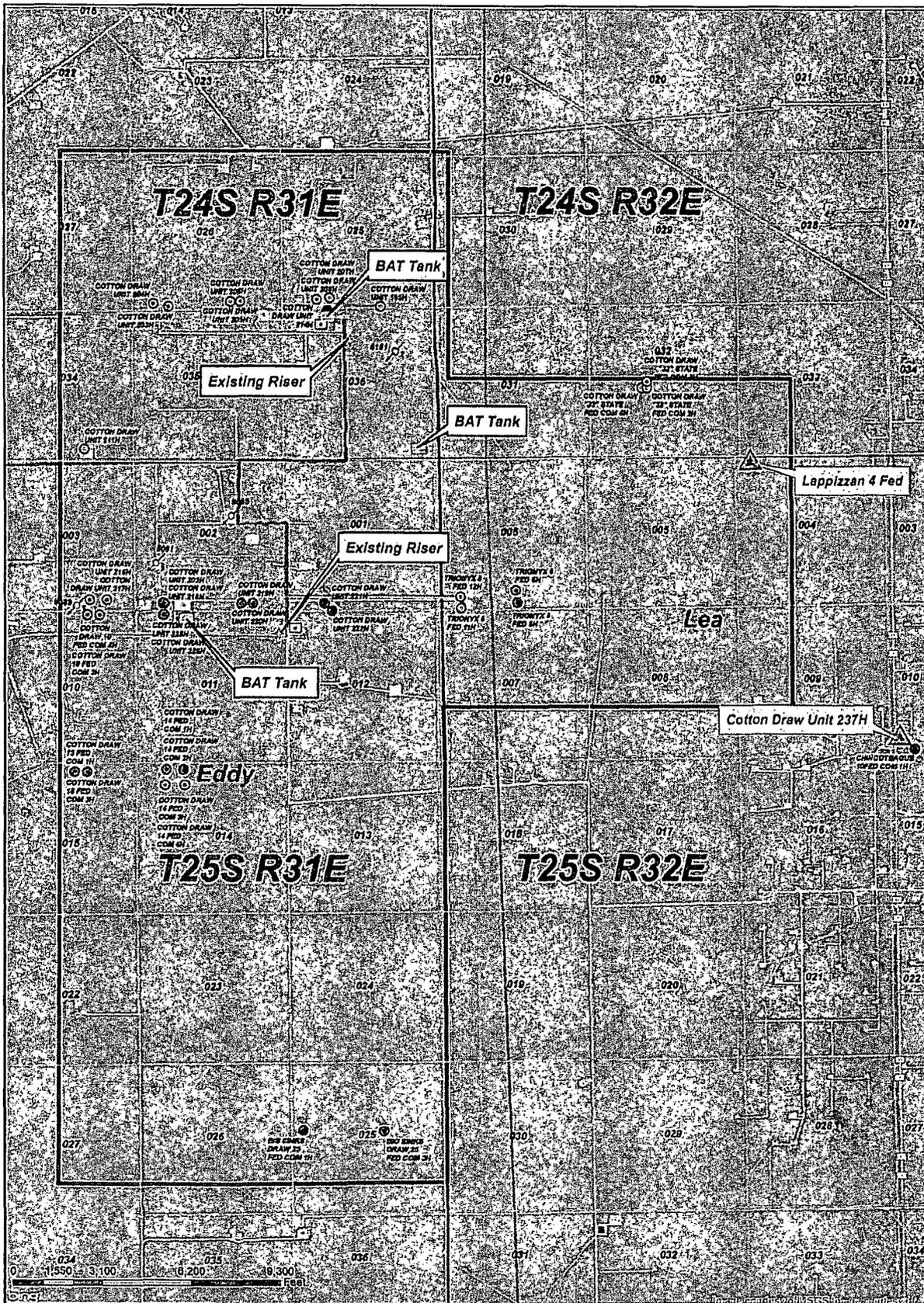
Appendix 6: Containment Liner Data

Appendix 7: Containment Berm Data

Appendix 8 Lab Reports

Appendix 9: Water Reuse SOP

Appendix 10: CDU Well List



Map Features

→ Existing Riser	● Devon Wells
○ BAT Tanks	● 4th Quarter 2013
□ Frac P4	● 1st Quarter 2014
⚡ Spillwater Disposal	● 2nd Quarter 2014
▭ Cotton Draw (Bosque A/D)	● 3rd Quarter 2014
⊞ Poly Above Ground From Riser	● 4th Quarter 2014
⊞ Lay Flat Wellbore Trans	● 1st Quarter 2015
⊞ Poly Above Ground From Tank	
▭ BLM_NM_Sections	

Bosque Systems, LLC
Devon Well Locations
Cotton Draw
Eddy & Lea Counties, NM

GIS Disclaimer: This product is for information purposes and may not have been designed for or be suitable for legal engineering or surveying purposes.

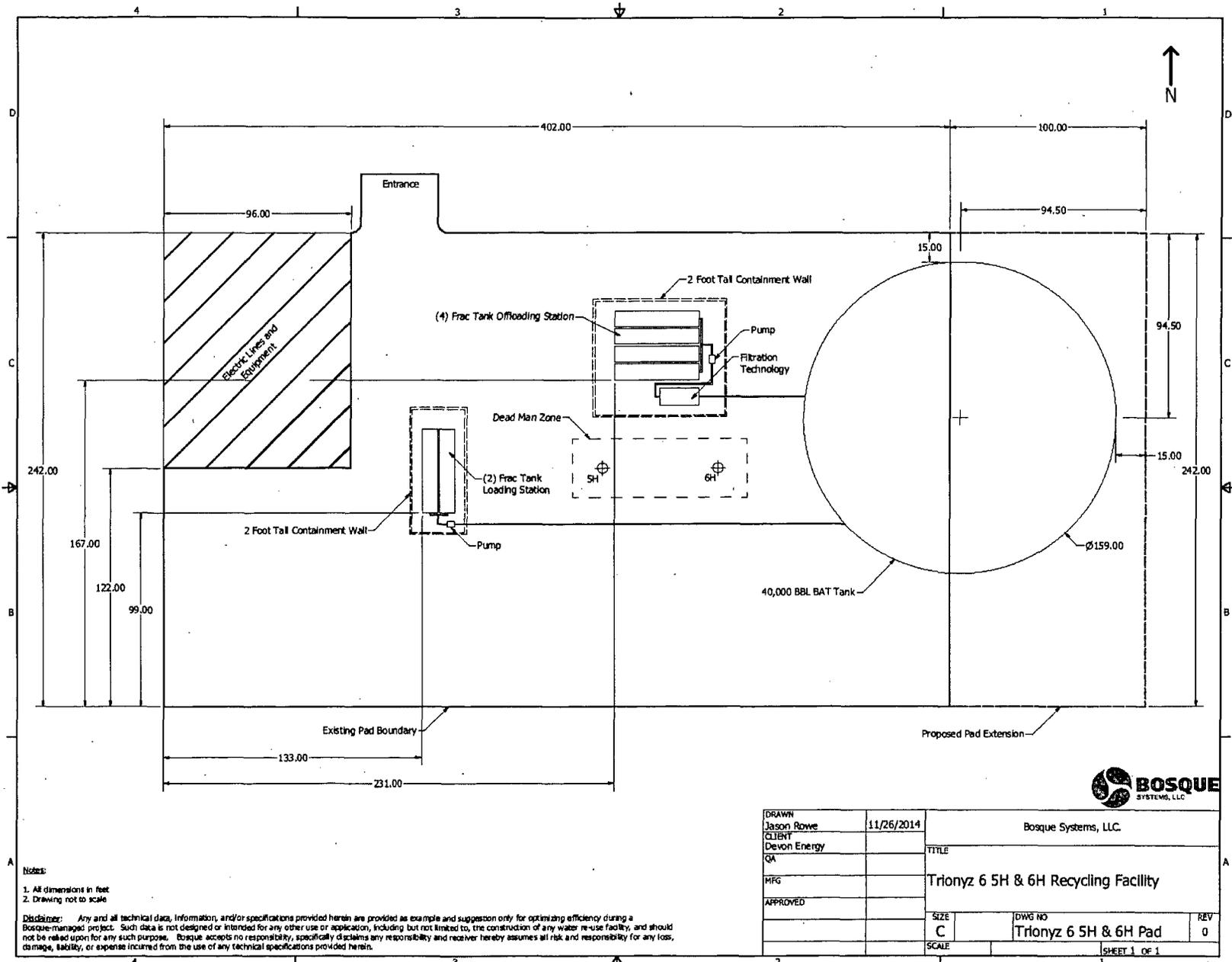
Coordinate System: NAD_1983_UTM_Zone_13N

Data Source: Bosque Systems GIS

Map Printed: 11/21/2014

By: Andrea (Andy) McDowell





Appendix 2

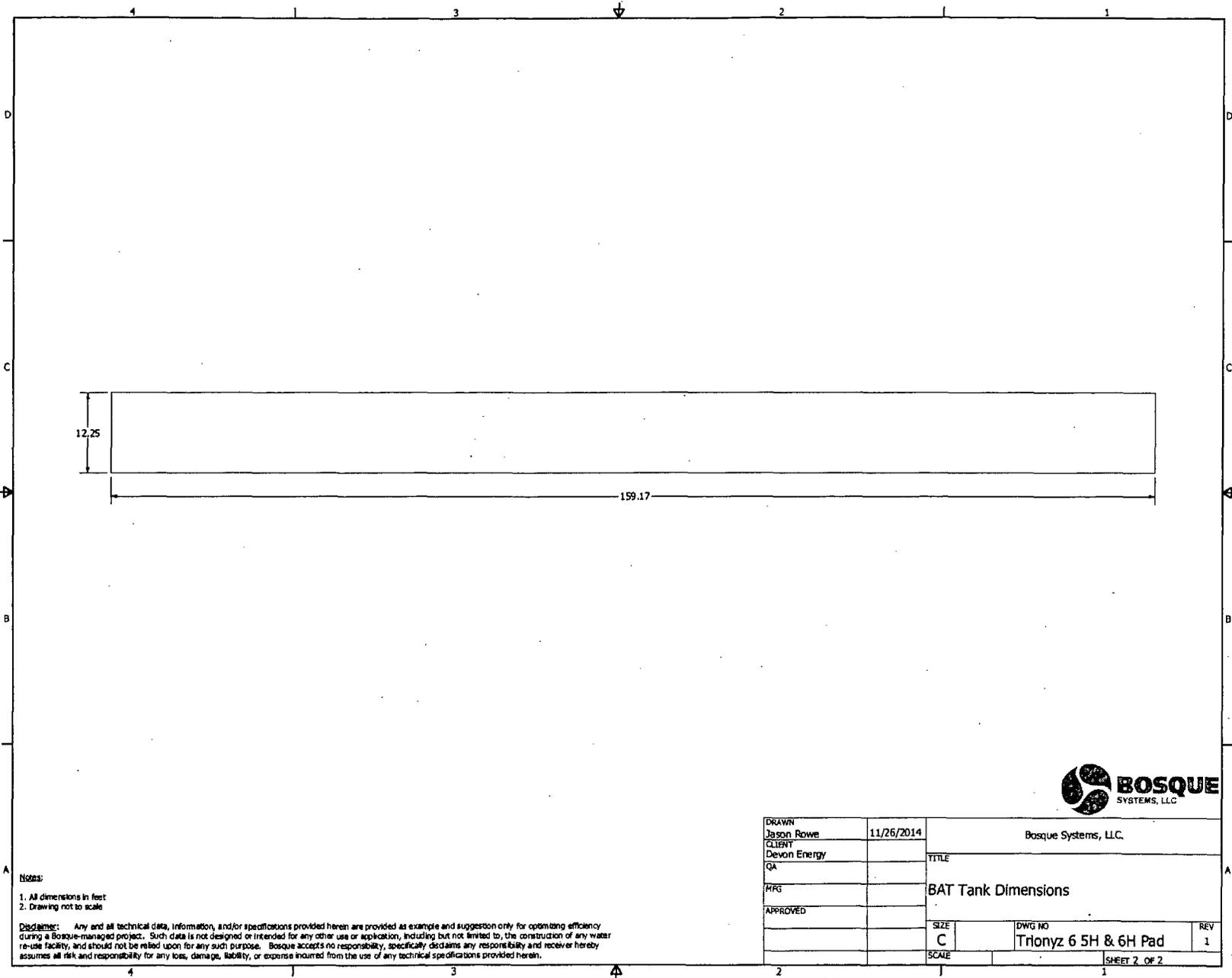


DRAWN Jason Rowe	11/26/2014	Bosque Systems, LLC.	
CLIENT Devon Energy		TITLE	
QA		Trionyz 6 5H & 6H Recycling Facility	
MFG		SIZE C	DWG NO Trionyz 6 5H & 6H Pad
APPROVED		SCALE	REV 0
		SHEET 1 OF 1	

Notes:

1. All dimensions in feet
2. Drawing not to scale

Disclaimer: Any and all technical data, information, and/or specifications provided herein are provided as example and suggestion only for optimizing efficiency during a Bosque-managed project. Such data is not designed or intended for any other use or application, including but not limited to, the construction of any water re-use facility, and should not be relied upon for any such purpose. Bosque accepts no responsibility, specifically disclaims any responsibility and receiver hereby assumes all risk and responsibility for any loss, damage, liability, or expense incurred from the use of any technical specifications provided herein.



- Notes:
1. All dimensions in feet
 2. Drawing not to scale

Disclaimer: Any and all technical data, information, and/or specifications provided herein are provided as example and suggestion only for optimizing efficiency during a Bosque-managed project. Such data is not designed or intended for any other use or application, including but not limited to, the construction of any water re-use facility, and should not be relied upon for any such purpose. Bosque accepts no responsibility, specifically disclaims any responsibility and receiver hereby assumes all risk and responsibility for any loss, damage, liability, or expense incurred from the use of any technical specifications provided herein.



DRAWN Jason Rowe	11/26/2014	Bosque Systems, LLC.	
CLIENT Devon Energy		TITLE	
QA		BAT Tank Dimensions	
MFG		SIZE	DWG NO
APPROVED		C	Trionyz 6 5H & 6H Pad
		SCALE	REV 1
			SHEET 2 OF 2

New Mexico BLM, Cotton Draw Reuse



Project 400770: Devon / New Mexico "Cotton Draw"

Appendix 3

Bosque Systems, LLC: Risk Register

Item / Process Step	Hazard / Potential Issue	Effect	Potential Consequences	Probability	Severity	Exposure	Frequency	Impact	Control / Mitigation Action	Risk Contingency Plan	Residual Risk Reduction	
BAT Tank	Personnel - Fall	Injury / Fatality	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Spot Checks	Fall Protection / SOP	0.00
Fire Tank	Personnel - Fall	Injury / Fatality	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Spot Checks	Fall Protection / SOP	0.00
Operations	H2S Exposure	Injury / Fatality	N/A	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Weather Forecasts, H2S Sensors	Treatment Plan including Medicine	0.00
Vehicle Ops	Collision with Vehicle / Equipment	Injury / Fatality / Equipment	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Backing SOP, Cuddles	Treatment Plan including Medicine	0.00
Operations	Slipping Employees	Overflow, Missed Events	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Spot Checks	Disciplinary Action, Replicas	0.00
Operations	Produced Water Exposure	Skin Irritation	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	MMSD Training, Supervision	Raise Station	0.00
Operations	Tip / Slip Hazards	Injury / Equipment Damage	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Marked Hazards, Barriers	Inspection, Spot Checks	0.00
Fire Tank	Overflow	Spill	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Spot Checks	Early Detection, Containment	0.00
Environment	Heat / Cold Exposure / Erection	Injury / Fatality	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Weather Plan, Scheduled Breaks	Treatment Plan including Medicine	0.00
Environment	Rambs Area for Medical Treatment	Delayed Medical	Location	0.00	0.00	0.00	0.00	0.00	Mitigation	Trained Personnel, Medical Locations known	Treatment Plan including Medicine	0.00
Operations	Measure, Lost Tools and Equipment	Delay, Equipment Damage	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Spot Checks	Disciplinary Action, Replicas	0.00
Vehicle Ops	Collision with Personnel	Injury / Fatality	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Backing SOP, Cuddles	Treatment Plan including Medicine	0.00
BAT Tank	Overflow	Spill	Equip / Damages	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Spot Checks	Early Detection, Containment	0.00
BAT Tank	Overflow	Spill	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Spot Checks	Early Detection, Containment	0.00
BAT Tank	Leak / Bad Connection	Delay / Spill, Environmental	Subcontractor	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision, Spot Checks	Backup Equipment on Site	0.00
BAT Tank	Migratory Bird Exposure	Injury / Dead Birds	Subcontractor	0.00	0.00	0.00	0.00	0.00	Mitigation	Bird Netting installed per BLM Standards	Scheduled Inspections	0.00
Transfer Pyl / PVC	Leak / Bad Connection	Delay / Spill, Environmental	Subcontractor	0.00	0.00	0.00	0.00	0.00	Mitigation	Early Coordination, Testing, Inspections	Backup Equipment on Site	0.00
Containment	Leak	Spill	Installation	0.00	0.00	0.00	0.00	0.00	Mitigation	Vehicle / Equipment transfer distances	Early Detection, Containment	0.00
Containment	Leak	Spill	Damage	0.00	0.00	0.00	0.00	0.00	Mitigation	Vehicle / Equipment transfer distances	Early Detection, Containment	0.00
Environment	Weather, Animals / Plants	Injury	Personnel	0.00	0.00	0.00	0.00	0.00	Mitigation	Training, Supervision	Treatment Plan including Medicine	0.00
BAT Tank	Leak	Spill	Debit	0.00	0.00	0.00	0.00	0.00	Transfer	Supplier at Risk / Replicate System	Slow fill, Early Detection, Containment	0.00
BAT Tank	Leak	Spill	Installation	0.00	0.00	0.00	0.00	0.00	Transfer	Subcontractor at Risk / Replicate Sub	Slow fill, Early Detection, Containment	0.00
BAT Tank	Leak	Spill	Damage	0.00	0.00	0.00	0.00	0.00	Mitigation	Vehicle / Equipment transfer distances	Slow fill, Early Detection, Containment	0.00
Environment	Weather, Lightning / Tornado	Injury / Fatality	Weather	0.00	0.00	0.00	0.00	0.00	Mitigation	Weather Plan, Shelter / Evac Training	Treatment Plan including Medicine	0.00
Transfer Pumps	Wrong Size / Failure	Delay	Subcontractor	0.00	0.00	0.00	0.00	0.00	Mitigation	Early Coordination, Testing, Inspections	Backup Equipment on Site	0.00

BLM LEASE NUMBER: NMLC061863A

COMPANY NAME: Devon Energy Production Co.

ASSOCIATED WELL NAME: Trionyx 6 Fed 5H and 6H Surface Pipeline

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES
(*Pipelines from Pond to Pond and from Existing Pipeline Risers to Pond*)

A copy of the application (Sundry Notice) and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 *et seq.* (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 20 feet. The surface pipeline must be installed no farther than 10 feet from the edge of the road. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried under all roads, "two-tracks," and trails. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state.

Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

- a. The surface pipelines must be installed no farther than 10 feet from the edge of the road. All construction and maintenance activity will be confined to existing roads or right-of-ways.
- b. **Lesser Prairie-Chicken:** Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the

maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

c. Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, siting valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present.

BLM LEASE NUMBER: NMLC061863A

COMPANY NAME: Devon Energy Production Co.

ASSOCIATED WELL NAME: Trionyx 6 Fed 5H and 6H

PRODUCED WATER FRAC POND CONDITIONS OF APPROVAL

A copy of the application (Sundry Notice) and attachments, including stipulations, survey plat and diagram, will be on location during construction. BLM personnel may request to see a copy of your permit during construction to ensure compliance with all conditions of approval. Construction will cease until the permit is on location.

Holder agrees to comply with the following conditions of approval to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this permit.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated.

3. Required Standard Conditions of Approval:

a. **Notification**

Contact the Supervisory Environmental Protection Specialist, Jim Amos, at 575-234-5909 at least 24 hours prior to starting construction.

b. **Contamination**

The operator will preclude releases of oil into open ponds. The operator must remove any accumulation of oil, condensate, or contaminant in a pond within 48 hours of discovery.

c. **Authorized Disturbance**

Confine all construction and maintenance activity to the approved authorized area applied for in the application.

d. **Liner**

The pond must have at least two 60 mil liners. The pond liner shall be maintained in good working condition, with no tears or holes, until the pond is closed. No trash, pipe, barrels, wireline, or metal equipment is permitted in the pond.

e. **Freeboard**

Ponds shall be constructed to preclude the accumulation of precipitation runoff and maintain a minimum of 2 feet of freeboard between the maximum fluid level and the lowest point of containment at all times. If pond fluids threaten to rise to a level allowing less than 2 feet of freeboard, steps shall immediately be taken to prevent introduction of additional fluids until sufficient pond capacity has been restored through fluid removal or an alternative containment method is approved and installed.

f. **Exclosure Netting**

The operator will prevent humans, wildlife (including avian wildlife), and livestock access to fluid ponds that contain or have potential to contain salinity

sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will install approved netting over ponds containing fluid in accordance with the requirements below. (*Note: The BLM does not approve of the use of flagging, strobe lights, metal reflectors, or noise makers as techniques for deterring wildlife.*)

Minimum Netting Requirements - The operator will:

- Construct a rigid structure made of steel tubing or wooden posts with cable strung across the pond at no more than seven (7) foot intervals along the X- and Y-axes to form a grid of 7 foot squares.
 - Suspend netting a minimum of 2 feet above the fluid surface.
 - Use a maximum netting mesh size of 1 ½ inches to exclude most birds.
 - Cover the top and all sides of the netting support frame with netting and secure the netting at the ground surface around the entire pond to prevent wildlife entry at the netting edges. (*Note: Hog wire panels or other wire mesh panels or fencing used on the sides of the netting support frame is ineffective in excluding small wildlife and birds unless covered by the smaller mesh netting.*)
 - Installation of the net must commence immediately after high activity operations cease. High activity operations include drilling operations and fracturing operations.
 - Monitor and maintain the netting sufficiently to ensure the netting is functioning as intended, has not entrapped wildlife, and is free of holes and gaps greater than 1 ½ inches.
 - Flagging or tags must be installed on the net in the center of the pond.
- g. **Mineral Material from Excavation**
If an earthen pond: Mineral materials extracted during construction of the frac pond will be stored on-location and/or used for constructing the frac pond.
- h. **Reclamation Start**
I. Reclamation efforts will commence 12 months from the time the sundry is approved. All equipment associated with the project must be removed.

Requirements for Operations and Final Reclamation:

4. If, during any phase of the construction, operation, maintenance, or termination of the frac pond, any pollutant should be released from the contaminated frac pond, the control and total removal, disposal, and cleaning up of such pollutant, wherever found, shall be the responsibility of holder, regardless of fault.

Upon failure of holder to control, dispose of, or clean up such discharge, or to repair all damages resulting there-from, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full

expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

6. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

7. Special Stipulations:

Monitor:

Personnel or a monitor must be onsite when the pond is in use.

Lesser Prairie-Chicken:

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

BLM LEASE NUMBER: NMLC061863A

COMPANY NAME: Devon Energy Production Co.

ASSOCIATED WELL NAME: Trionyx 6 Fed 5H and 6H Surface Pipeline

Temporary Produced Water CONDITIONS OF APPROVAL
(Pipelines from Pond to Wells)

Pipelines must follow within 10 feet of existing oil and gas roads. The maps in the application are general routes and do not depict the specific route. The applicant must get like approval from the state. The applicant is responsible for cleanup of any spills. The primary objective is to not allow produced water to reach the ground.

Maintain a copy of your temporary permit and your approved route diagram on location during installation and operations. BLM personnel may request to see a copy of your permit during installation or operations to ensure compliance with all conditions of approval. The project will cease until the permit is on location.

Holder agrees to comply with the following conditions of approval to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this permit.
2. Standard Conditions of Approval:
 - Pipelines must be removed within 30-45 days from this route.
 - Pipelines and all connection points must be leak proof. The company must prevent any amount of produced water from reaching the ground. Small drips are not allowed to touch the ground.
 - Pipelines and all connection points must be pressure-tested with freshwater prior to use with produced water.
 - Pipelines flowing from the frac water holding area to the target well(s) will be laid along existing oil and gas maintained roads (within 5 to 10 feet of roadway).
 - Areas impacted (disturbed greater than vegetation compaction) by your project will require full reclamation.
 - Pipelines will be empty before disassembly. Freshwater must be flowed through the pipeline to removal all the produced water prior to disassembly. Flow water back to the designated holding area.
 - Do not restrict traffic on existing roads. Place ramps where needed on existing access roads.
 - Pipe will be placed not farther than 5 to 10 feet off the edge of existing oil and gas maintained roads or other maintained roads.
 - All pumps and other equipment must be placed on existing surfaced areas (pads, roads, etc.).
 - All equipment associated with transporting produced water must be leak proof.

- The produced water lines and equipment would need to be checked and monitored continuously to ensure a leak is not occurring. If a leak is discovered (no matter how small), it must be corrected immediately, even if it would require ceasing the fracturing operation. Non-earthen secondary containments should be put in place if a small leak occurs.
- Any spills or leaks of produced water would need to be reported as soon as possibly known to the authorized officer. Any spills would need to be addressed as quickly as possible, and reclamation of the disturbance will need to be discussed with the authorized officer.

3. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer.

4. Special Stipulations:

- Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including fracturing operations will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline installation will be allowed except between 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted. Exhaust noise from engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.