



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Friday, August 26, 2016
WELL WORK PERMIT
Vertical / Plugging - 2

XTO ENERGY, INC.
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for 1
47-033-02375-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: 1
Farm Name: MARTIN, VONDA
U.S. WELL NUMBER: 47-033-02375-00-00
Vertical / Plugging - 2
Date Issued: 8/26/2016

Promoting a healthy environment.

08/26/2016

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B
Rev. 2/01

1) Date July 6, 20 16
2) Operator's
Well No. Martin, Vonda 1
3) API Well No. 47-033 - 02375

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___/ Gas X/ Liquid injection ___/ Waste disposal ___/
(If "Gas, Production X or Underground storage ___) Deep ___/ Shallow X

5) Location: Elevation 1112' Watershed 0502000303
District Eagle -04 County Harrison Quadrangle Wallace -655

6) Well Operator XTO Energy Inc 7) Designated Agent Gary Beall
Address PO Box 1008 Address PO Box 1008
Jane Lew, WV 26378 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified Name Sam Ward
Address PO Box 2327
Buckhannon, WV 26201
9) Plugging Contractor Name _____
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:
RIH with tools and check TD at 4560', POOH and run 2" tubing down to 4560' and circulate
6% gel back to surface, then pump cement from 4560' up to 4325', perfs at 4474 - 4471', pull tubing up to
4100' and reverse circulation out of tubing, then wait for cement to set up and run small
tools down tubing to tag cement at 4325', POOH and if cement is ok pull tubing up to 3380' and pump cement up
to 3150' perfs at 3321 - 3313', pull tubing out and RIH to CBL 4.5" casing, est. top of cement at 2400', cut
casing and circulate 6% gel back to surface, and pump cement from 2400 up to 2250', pull casing up to 1850' and pump cement
up to 1650', pull casing up to 1250' and pump cement up to 1050', pull casing up to 300' and pump cement to surface.
Install well monument. See attached

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yvm
ok

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Sal DeWanette Date 7/14/2016

08/26/2016

47-033-02375

Plugging Procedure

Cement - 4560 - 4325' = 235' in 4.5"

Cement - 3380' - 3150' = 230' in 4.5"

Cement - 2400 - 2250' = 150' in 7 7/8" Open Hole

Cement - 1850 - 1650' = 200' in 7 7/8" Open Hole

Cement - 1250 - 1050' = 200 in 8 5/8"

Cement - 300 - 0' = 300' in 8 5/8"

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

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OIL & GAS DIVISION
DEPT. OF MINES

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Wallace 7.5
633
Permit No. 2375

Company Vanguard Exploration Co., Inc.
Address 12606 Greenville Ave-Ste 200-Dallas, Tx 75243
Farm H. M Martin Acres 50.25
Location (waters) Jones Creek
Well No. Martin #1 Elev. 1110
District Eagle County Harrison
The surface of tract is owned in fee by Mrs. Gay B. Rogers
Address Clarksburg, W. VA.
Mineral rights are owned by Mrs. Gay B. Rogers
Address Clarksburg, W. VA.
Drilling Comenced July 14, 1980
Drilling Completed July 20, 1980
Initial open flow 1400 M cu. ft. 0 bbls.
Final production 660 M cu. ft. per day 0 bbls.
Well open 4 hrs. before test 1370RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 11 3/4	33'	33'	0
9 5/8			
8 5/8	1191.3	1191.3	325
7			
5 1/2			
4 1/2	4574.55	4574.55	400
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Benson: Perforations: 4471-74 (12 Holes)
Fracturing: 20,000 lbs. 80/100 sand, 30,000 lbs. 20/40 sand, 490 BBLs fluid

Balltown: Perforations: 3313-21 (12 Holes)
Fracturing: 20,000 lbs., 80/100 sand, 40,000 lbs., 20/40 sand, 500 gal. acid, 460 BBLs. fluid.

Coal was encountered at none encountered Feet _____ Inches _____
Fresh water 245 Feet _____ Salt Water None Feet _____
Producing Sand Balltown, Benson Depth 3313-21, 4471-74

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	10		
Shale & Sand			10	190		Hole damp @ 40'
Red Rock			190	200		
Shale & White Sand			200	275		2 1/2" stream @ 245'
Sand & Shale			275	550		
Sand & Shale			550	595		
Sand & Sandy Shale			595	910		Gas ck @ 3411 16/10 thru 1 1/2" w/water 67,777 cu. ft.
Sand & Sandy Shale			910	1030		
Sand, shale & white sand			1030	1095		
Shale & white sand			1095	1165		Gas ck @ 4368 16/10 thru 1 1/2" w/water 67,777 cu. ft.
Black Shale			1165	1200		
Red rock & Shale			1200	1365		
Big Lime & Injun			1365	1490		Gas ck @ 4583 20/10 thru 1 1/2" w/water 75,777 cu. ft.
Shale & sand			1490	3313		
Balltown			3313	3341		
Shale & sand			3341	3835		
Shale			3835	4470		
Benson			4470	4490		
Shale			4490	4613 TD		

08/26/2016

(over)

* Indicates Electric Log tops in the remarks section

WW-4A
Revised 6-07

1) Date: July 12, 2016
2) Operator's Well Number
Martin, Vonda 1
3) API Well No.: 47 - 033 - 02375

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

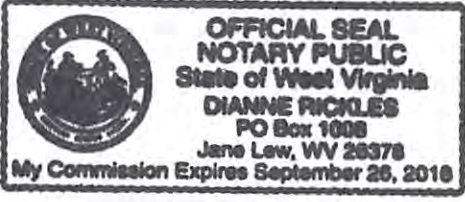
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Harrison County Coal Company</u> ✓	Name _____
Address <u>46226 National Road</u>	Address _____
<u>St. Clairsville, OH 43950</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidation Coal Company</u> ✓
	Address <u>c/o Leatherwood Inc.</u>
	<u>CNX Center</u>
(c) Name _____	Name <u>1000 Consol Energy Drive</u>
Address _____	Address <u>Canonsburg, PA 15317</u>
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator XTO Energy Inc.
 By: [Signature]
 Its: Regulatory Compliance Technician
 Address PO Box 1008
Jane Lew, WV 26378
 Telephone Jane Lew, WV 26378

Subscribed and sworn before me this 12th day of July, 2016
Dianne Rickles Notary Public
 My Commission Expires Sept. 26, 2018

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

08/26/2016

3302375P

WW-9
(2/15)

API Number 47 - 033 - 02375
Operator's Well No.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name XTO Energy Inc. OP Code 494487940
Watershed (HUC 10) 0502000303 Quadrangle Wallace, West Virginia

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No - TS 8/25/16

If so, please describe anticipated pit waste: Fluids from plugging operations NA - TS 8/25/16

Will a synthetic liner be used in the pit? Yes No If so, what ml.? Yes 20 mil NA - TS 8/25/16

Proposed Disposal Method For Treated Pit Wastes:
 Land Application
 Underground Injection (UIC Permit Number 4707302523, 4708505151, 4708509721)
 Reuse (at API Number)
 Off Site Disposal (Supply form WW-9 for disposal location)
 Other (Explain Meadowbrook Landfill SWF#1032, RES Water Recycling -WMGR123SW005 (PA))

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS BEFORE HAULING OFFSITE.
SDW 7/14/16
gmm 8/25/16

Will closed loop system be used? If so, describe: NA

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA - Plugging

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Any solid waste from plugging will be taken to landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? Meadowbrook Landfill SWF#1032

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Tim Sands
Company Official (Typed Name) Tim Sands
Company Official Title Regulatory Compliance Technician

Subscribed and sworn before me this 6th day of July, 20 16
Dianne Pickles Notary Public

My commission expires Sept. 26, 2018



08/26/2016

Form WW-9

Operator's Well No. Vonda Martin 1

XTO Energy Inc.

Proposed Revegetation Treatment: Acres Disturbed 0.54 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch wood fiber or chopped straw @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Ladino Clover	30
		Serecia Lespedeza	25
		Tall Fescu	2

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

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Plan Approved by: [Signature]

Comments: _____

WV Department of
Environmental Protection

Title: OOG Inspector Date: 7/14/2016

Field Reviewed? () Yes (X) No

08/26/2016

WW-9- GPP
Rev. 5/16

Page _____ of _____
API Number 47 - 033 - 02375
Operator's Well No. Martin, Vonda 1

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
GROUNDWATER PROTECTION PLAN

Operator Name: XTO Energy Inc.
Watershed (HUC 10): 0502000303 Quad: Wallace
Farm Name: Martin, Vonda

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Fluids will not be discharged.

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

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- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

JUL 18 2016

NA

WV Department of
Environmental Protection

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

08/26/2016

WW-9- GPP
Rev. 5/16

Page _____ of _____
API Number 47 - 033 - 02375
Operator's Well No. Martin, Vonda 1

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

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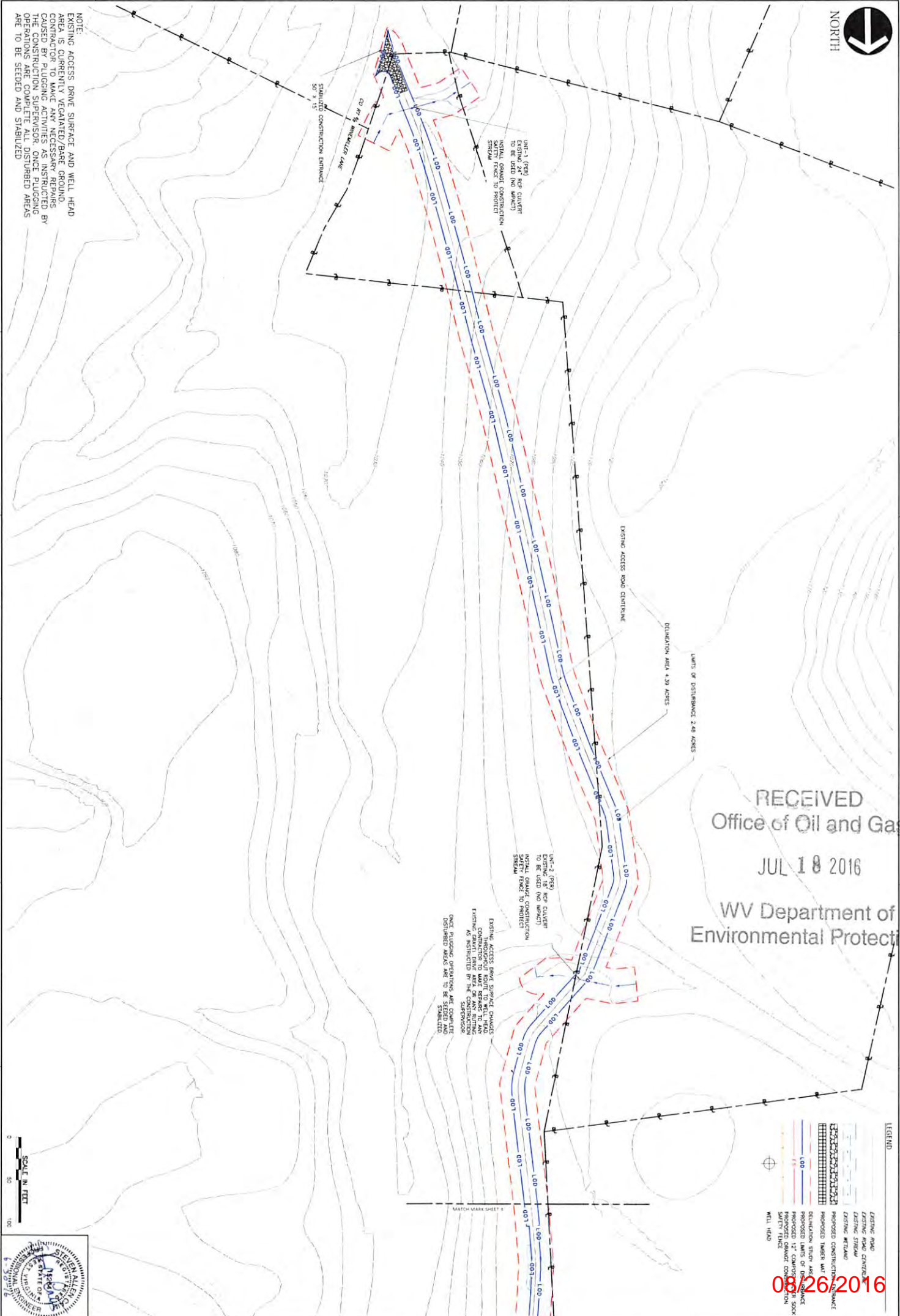
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: *Tinder*

Date: July 6, 2016

08/26/2016



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08/26/2016

LEGEND

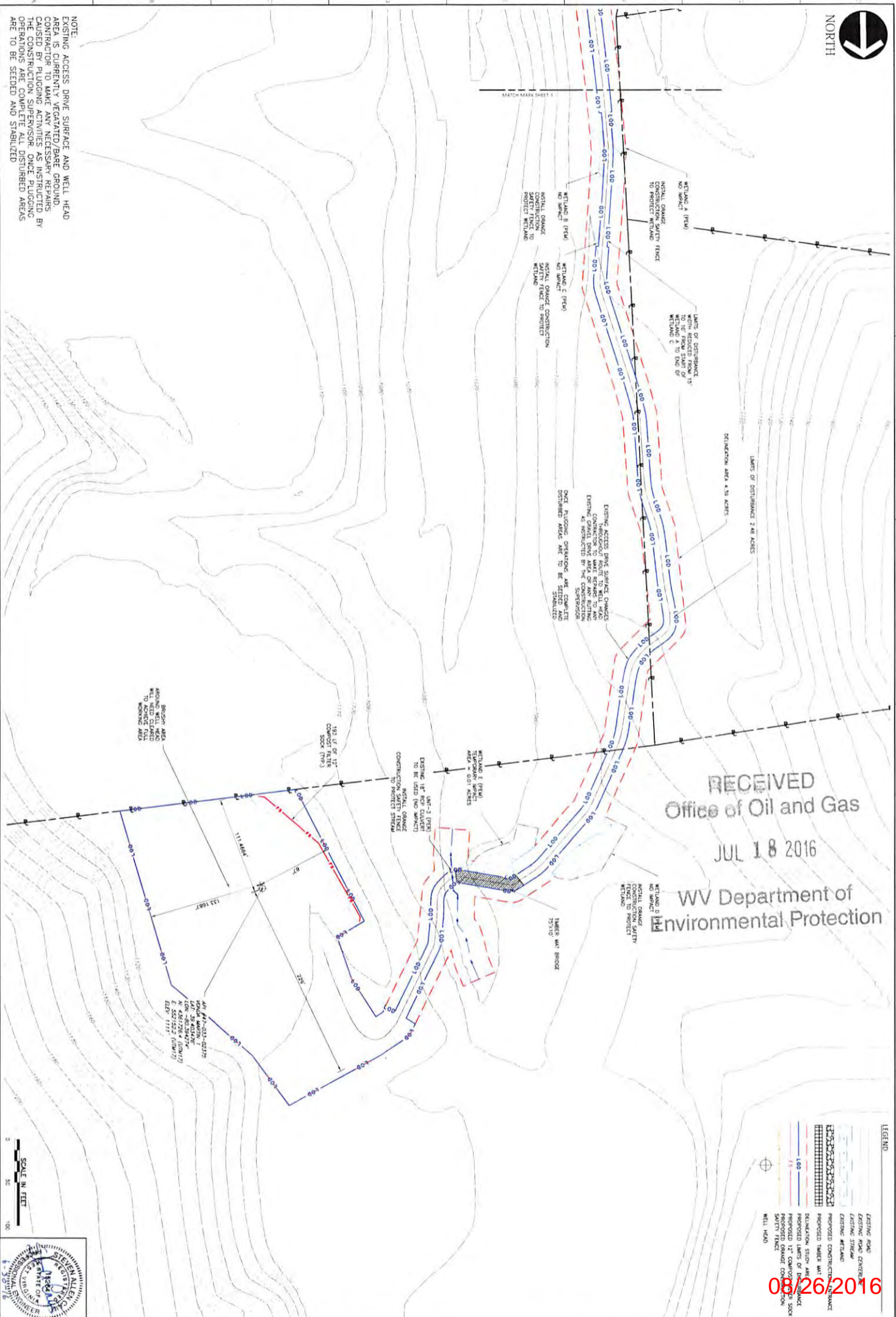
	EXISTING ROAD CENTERLINE
	EXISTING STREAM
	EXISTING WETLAND
	PROPOSED CONSTRUCTION FOOTPRINT
	WELL HEAD

NOTE:
EXISTING ACCESS DRIVE SURFACE AND WELL HEAD AREA IS CURRENTLY VEGETATED/BARE GROUND. CONTRACTOR TO MAKE ANY NECESSARY REPAIRS CAUSED BY PLUGGING ACTIVITIES AS INSTRUCTED BY THE CONSTRUCTION SUPERVISOR. ONCE PLUGGING OPERATIONS ARE COMPLETE ALL DISTURBED AREAS ARE TO BE SEEDED AND STABILIZED.

EXISTING ACCESS DRIVE SURFACE CHANGES THROUGHOUT ROUTE TO WELL HEAD. CONTRACTOR TO MAKE ANY NECESSARY REPAIRS AS INSTRUCTED BY THE CONSTRUCTION SUPERVISOR. ONCE PLUGGING OPERATIONS ARE COMPLETE ALL DISTURBED AREAS ARE TO BE SEEDED AND STABILIZED.



SHEET 3 OF 3	EROSION & SEDIMENT CONTROL PLAN	XTO ENERGY, INC. VONDA MARTIN 1 WELL PLUGGING PROJECT EAGLE DISTRICT HARRISON COUNTY, WV	 Civil & Environmental Consultants, Inc.	REVISION RECORD	
	DATE: 12.01.2016 DRAWN BY: CCN CHECKED BY: AS SHOWN PROJECT NO: 151-114 APPROVED BY: SAC			DATE: _____ DESCRIPTION: _____	DATE: _____ DESCRIPTION: _____



NOTE:
EXISTING ACCESS DRIVE SURFACE AND WELL HEAD AREA IS CURRENTLY VEGETATED/BARE GROUND. CONSTRUCTION ACTIVITIES SHALL BE SUPERVISED BY THE CONSTRUCTION SUPERVISOR. ONCE PLUGGING OPERATIONS ARE COMPLETE ALL DISTURBED AREAS ARE TO BE SEEDED AND STABILIZED.

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LEGEND

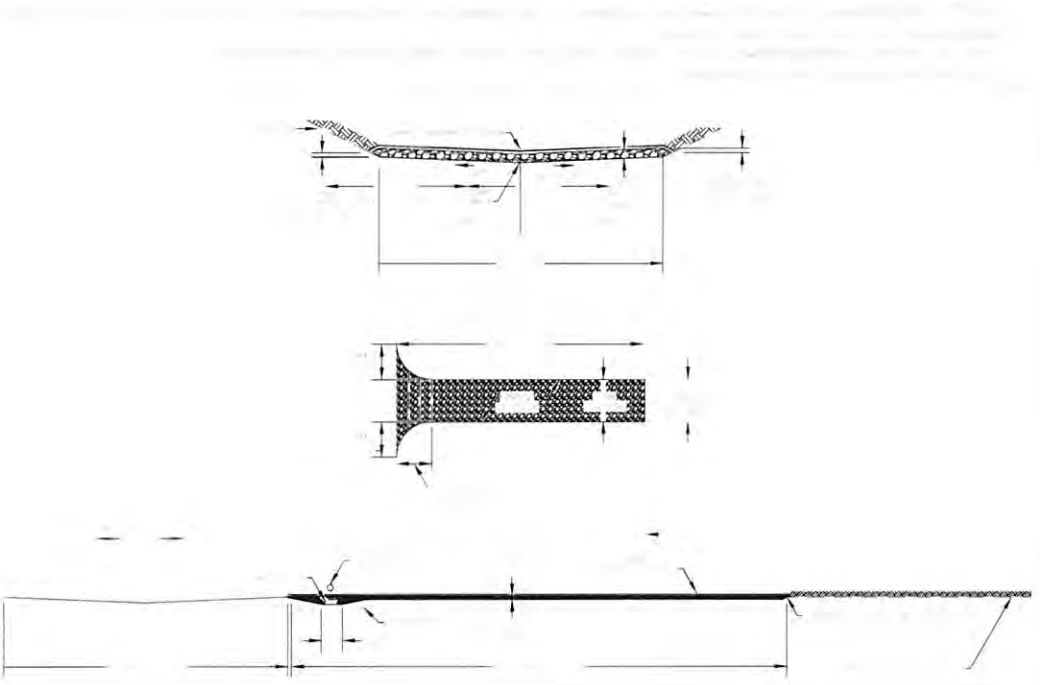
- EXISTING ROAD
- EXISTING ROAD CENTERLINE
- EXISTING STREAM
- EXISTING WETLAND
- PROPOSED CONSTRUCTION DISTURBANCE
- DRAINAGE AREA
- PROPOSED 12" COMPOSITE SOCK
- PROPOSED 12" COMPOSITE SOCK
- PROPOSED 12" COMPOSITE SOCK
- PROPOSED 12" COMPOSITE SOCK
- PROPOSED 12" COMPOSITE SOCK
- WELL HEAD



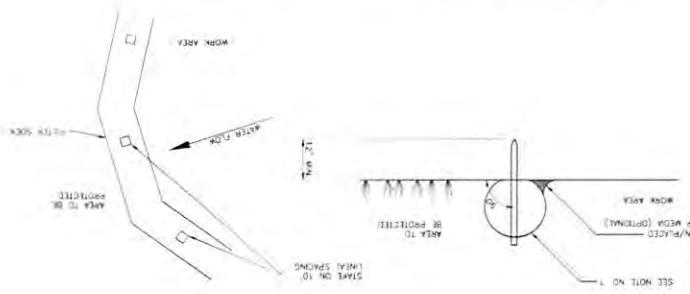
08/26/2016

SHEET 4 OF 5	EROSION & SEDIMENT CONTROL PLAN		XTO ENERGY, INC. VONDA MARTIN 1 WELL PLUGGING PROJECT EAGLE DISTRICT HARRISON COUNTY, WV	<p>Civil & Environmental Consultants, Inc.</p>	REVISION RECORD	
	DATE: 07.15.2016 DRAWN BY: CCM CHECKED BY: ASH SHOWN DATE: 07.15.2016 PROJECT NO: 151-111 DRAWN BY:	DATE:			DESCRIPTION:	

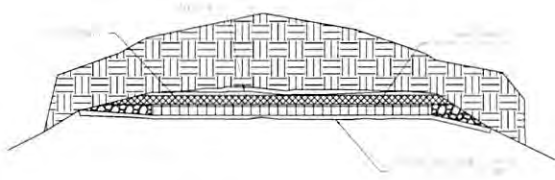
3302 375 P



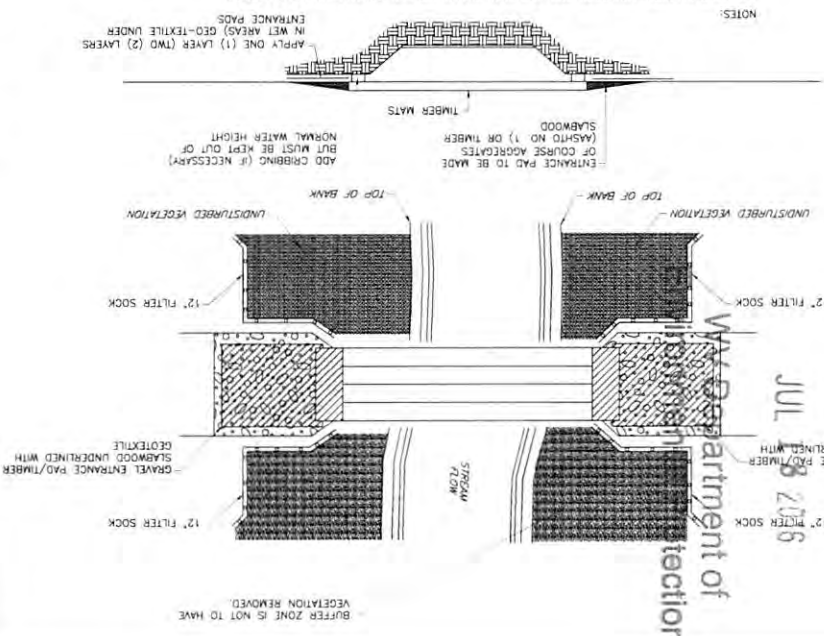
DETAIL 1
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



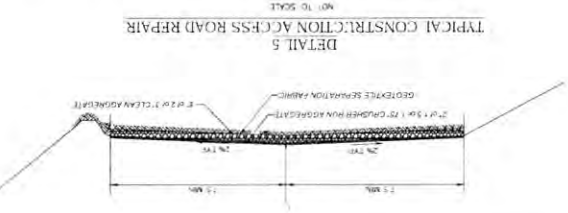
DETAIL 3
COMPOST FILTER SOCK
NOT TO SCALE



DETAIL 4
TIMBER MAT BRIDGE FOR WETLAND CROSSING
NOT TO SCALE



DETAIL 2
TEMPORARY TIMBER MAT STREAM CROSSING DETAIL
NOT TO SCALE



DETAIL 5
TYPICAL CONSTRUCTION ACCESS ROAD REPAIR
NOT TO SCALE

- NOTES:
- 1.) ONLY CLEANING EQUIPMENT AND EQUIPMENT NECESSARY FOR INSTALLATION OF EQUIPMENT OF EACH WATER BODY TO ONE PER PIECE OF CLEANING EQUIPMENT. LIMIT THE CROSSING BRIDGES MAY CROSS WATER BODIES PRIOR TO BRIDGE INSTALLATION. LIMIT THE CROSSING
 - 2.) INSTALL 12" FILTER SOCK ACROSS THE DISTURBED AREA OF THE RIGHT - OF - WAY.
 - 3.) APPLY GEO - TEXTILE UNDER ENTRANCE PADS.
 - 4.) EXCESS MUD IS TO BE REMOVED FROM THE ENTRANCE PADS AND MATS DURING CONSTRUCTION.
 - 5.) SECURE GEO-TEXTILE TO UNDER SIDE OF TIMBER MATS AND WARP/SECURE TO SIDES TO PREVENT SEDIMENT/MUD FROM MIGRATION THROUGH MATS TO PROTECTED AREA BELOW.
 - 6.) DURING FINAL CLEAN UP WHEN MATS, CURBERI, CLEAN ROCK FILL, ETC ARE REMOVED, INSTALL FILTER FENCE ACROSS THE ENTIRE RIGHT - OF -WAY ON BOTH SIDES OF STREAM.

NOTES:

EXISTING ACCESS DRIVE IS CURRENTLY VEGETATED. THE CONTRACTOR SHALL MAKE REPAIRS TO MINOR ROUTING WITHIN THE ACCESS ROAD PER THIS DETAIL OR AS INSTRUCTED BY THE CONSTRUCTION SUPERVISOR. THE ACCESS ROAD IS TO BE STABILIZED AND MAINTAINED THROUGHOUT CONSTRUCTION AS DIRECTED BY THE CONSTRUCTION SUPERVISOR. ONCE THE WORK IS COMPLETE ANY DISTURBED AREAS MUST BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN DETAILS.



EROSION & SEDIMENT CONTROL PLAN DETAILS

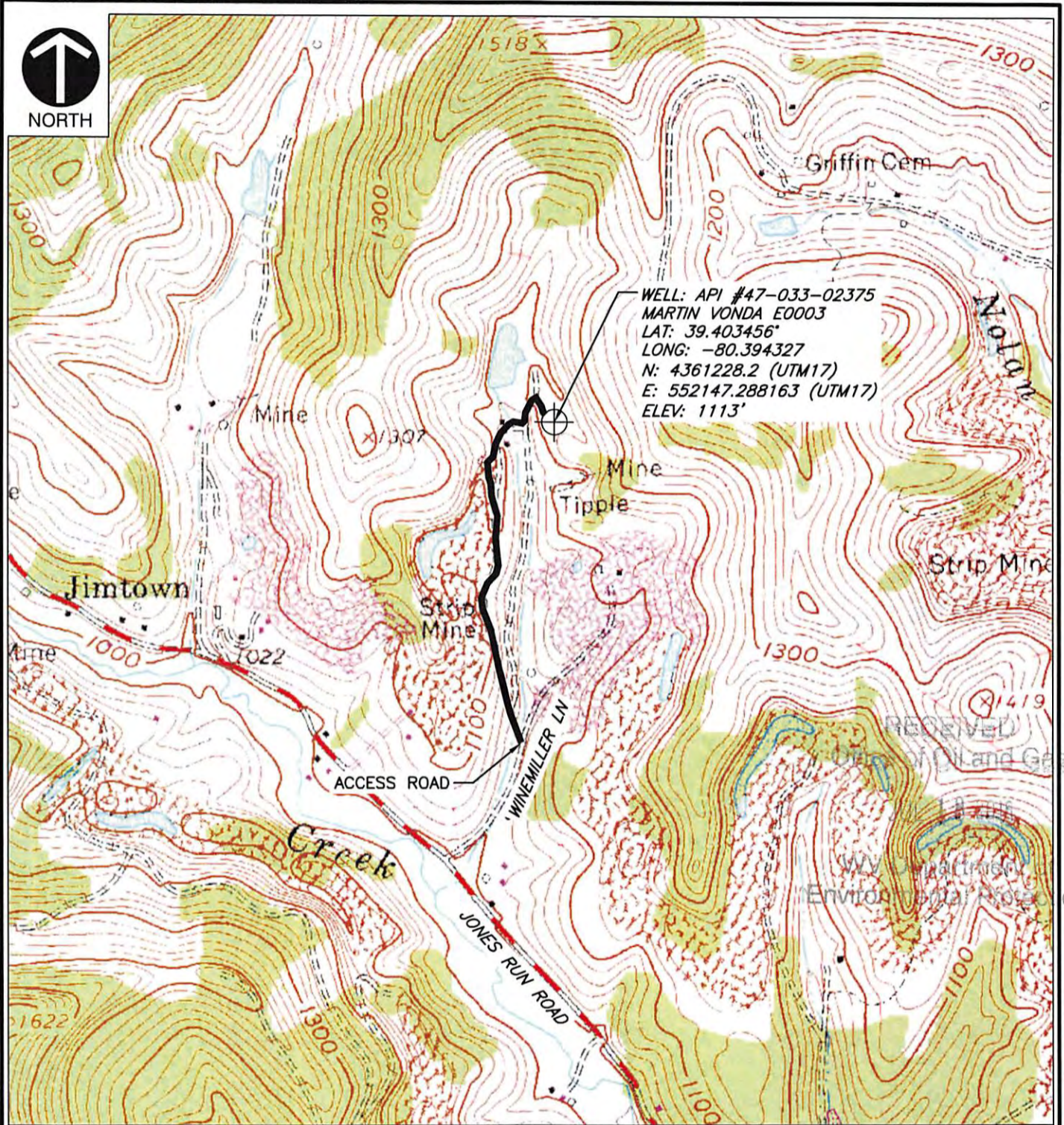
DATE	10/24/2018	DESIGNED	AS SHOWN
DATE	10/24/2018	CHECKED	AS SHOWN
DATE	10/24/2018	APPROVED	AS SHOWN
DATE	10/24/2018	ISSUED	AS SHOWN

XTO ENERGY, INC.
VONDA MARTIN I
WELL PLUGGING PROJECT
HARRISON COUNTY, WV

Civil & Environmental Consultants, Inc.

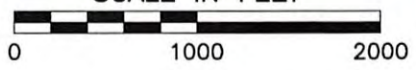
NO.	REV.	DATE	DESCRIPTION

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Department of Conservation



P:\2015\151-114\CADD\DWG\CV01\151114-MARTIN VONDA LOCATION MAP.dwg[3] LS:(11/10/2015 - zdemarco) - LP: 11/10/2015 1:04 PM

SCALE IN FEET



REFERENCE
 1. USGS 7.5 MIN QUAD - WALLACE, WV

CEC
Civil & Environmental Consultants, Inc.
 600 Market Place - Suite 200 - Bridgeport, WV 26330
 Ph: 304.933.3119 · Fax: 304.933.3327
 www.cecinc.com

XTO ENERGY, INC.
 MARTIN VONDA PLUGGING PROJECT
 HARRISON COUNTY, WEST VIRGINIA

PROJECT LOCATION MAP

DRAWN BY: ZMD	CHECKED BY: JDK	APPROVED BY: DEM	FIGURE NO: 1
DATE: NOVEMBER 2015	DWG SCALE: 1" = 1000'	PROJECT NO: 151-114.0041	08/26/2016

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-033-02375 WELL NO.: 1

FARM NAME: Vonda Martin

RESPONSIBLE PARTY NAME: XTO Energy, Inc.

COUNTY: Harrison DISTRICT: Eagle

QUADRANGLE: Wallace

SURFACE OWNER: Harrison County Coal Company

ROYALTY OWNER: Orson White/Billie J. Conrad/Ellen L Himes/E.D. Anderson

UTM GPS NORTHING: 4361726.4

UTM GPS EASTING: 552152.2 GPS ELEVATION: 339m (1111')

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JUL 18 2016
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Environmental Protection

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
 Real-Time Differential
 Mapping Grade GPS : Post Processed Differential
 Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Jacquelyn Kuebler Signature Project Manager Title July 5, 2016 Date

08/26/2016