



west virginia department of environmental protection

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

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

July 17, 2015

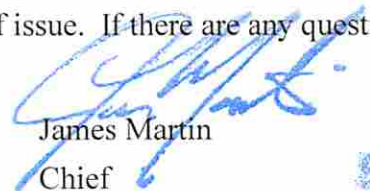
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3303438, issued to XTO ENERGY, INC., 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 all 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: MOROSA 1-B4
Farm Name: SALERNO, JOSEPH, ETAL
API Well Number: 47-3303438
Permit Type: Plugging
Date Issued: 07/17/2015

Promoting a healthy environment.

07/17/2015

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.

WW-4B
Rev. 2/01

1) Date _____, 20_____
2) Operator's
Well No. Morosa 1-B4
3) API Well No. 47-033 - 03438

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 1193 Watershed Bingamon Creek
District Eagle & Clay County Harrison Quadrangle Shinnston

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 9) Plugging Contractor
Name Sam Ward Name _____
Address PO Box 2327 Address _____
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:

RIH and check T.D. at 3530', POOH and run 2" tubing down to 3530' and circulate 6% gel back to surface, then pump cement from 3530' up to 3330', perfs at 3476 - 3462', pull tubing up to 3226' and flush tubing out and wait for cement to set up, and RIH down tubing to tag cement at 3330', if ok break circulation and pump cement from 3226' up to 3074', perfs at 3176 - 3174', pull tubing up to 2625' and pump cement up to 2125', perfs at 2575 - 2242', pull tubing up to 1750' and pump cement up to 1450', perfs at 1686' - 1588' pull tubing out of well and RIH with CBL in 4.5 casing cement top on log at 770' at free pipe, cut casing at 770' and pump cement up to 600', elevation at 1193' and bottom of 8 5/8" casing cemented over, pull casing up to 200' and pump cement to surface. 8 5/8" casing is cemented to surface. Install well monument.

Cement - 3530 - 3330' = 200' in 4.5" Cement - 1750 - 1450' = 300' in 4.5"
Cement - 3226 - 3074' = 152' in 4.5" Cement - 770 - 600' = 170' in 8 5/8"
Cement - 2625 - 2125' = 500' in 4.5" Cement - 200 - Surface = 200' in 8 5/8"

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

Work order approved by inspector Sam Oubert Date 5/27/2015

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IV-35
(Rev 8-81)

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State of West Virginia

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Department of Mines
Oil and Gas Division

Date July 26, 1987
Operator's
Well No. Morosa #1-B4
Farm Morosa
API No. 47 - 033 - 3438

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1193 Watershed _____
District: Clay County Harrison Quadrangle Shinnston 7.5

COMPANY Bowie, Inc.
ADDRESS 132 Waldeck St., Clarksburg, WV
DESIGNATED AGENT William H. Bowie
ADDRESS 132 Waldeck St., Clarksburg, WV
SURFACE OWNER Joseph Salerno et al
ADDRESS Rt. 1, Shinnston, WV 26431
MINERAL RIGHTS OWNER Joseph Salerno et al
ADDRESS Rt. 1, Shinnston, WV 26431
OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey
ADDRESS Rt. 2, Box 232D, Jane Lew 26378
PERMIT ISSUED May 26, 1987
DRILLING COMMENCED July 13, 1987
DRILLING COMPLETED July 17, 1987
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	250	250	To Surface
9 5/8			
8 5/8	1050	1050	To Surface
7			
5 1/2			
4 1/2	3572	3572	480 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Balltown Depth 3600 feet
Depth of completed well 3606 feet Rotary X / Cable tools
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: 184' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Balltown Speechley Pay zone depth 462 feet
Gas: Initial open flow 260 Mcf/d Oil: Initial open flow None Bbl/d
Final open flow 650 Mcf/d Final open flow None Bbl/d
Time of open flow between initial and final tests 12 hours
Static rock pressure 600 psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--)
Second producing formation 30 Foot, Fifth Sand Pay zone depth 3168 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow None Bbl/d
Final open flow comingled Mcf/d Oil: Final open flow None Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

30 Foot 2242-2244 (8 shots) 100 sks 70 Bbl 75 quality foam 500 gal HCL
 Fifth Sand 2573-2575 (5 shots) 250 sks 316 Bbl SLF gelled water 750 gal HC
 Speechley 3174-3176 (5 shots)
 Balltown 3462-3465 (7 shots) 350 sks 302 Bbl SLF gelled water 500 gal H
 3474-3476 (5 shots)

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil			0	13	
Sand & Shale			13	161	
Coal			161	164	
Sand & Shale			164	184	
Open Mine			184	202	
Sand & Shale			202	345	
Red Rock			345	390	
Sand & Shale			390	740	
Coal			740	744	
Sand & Shale			744	973	
Coal			973	980	
Sand & Shale			980	1514	
Big Lime			1514	1577	
Big Injun			1577	1676	
Sand & Shale			1676	1680	
Pocono			1680	1701	
Sand & Shale			1701	2000	Gas Check 1764 No Show
Gantz			2000	2010	
Sand & Shale			2010	2116	
50 Foot			2116	2210	
Sand & Shale			2210	2224	
30 Foot			2224	2263	Gas Check 2265 50/10 2" H ₂ O OF
Sand & Shale			2263	2396	
Gordon			2396	2443	
Sand & Shale			2443	2490	
Fourth			2490	2500	
Sand & Shale			2500	2560	Gas Check 2512 70/10 2" H ₂ O OF
Fifth			2560	2585	Gas Check 2668 70/10 2" H ₂ O OF
Sand & Shale			2585	3168	Gas Check 3107 35/102" H ₂ O OF
Speechley			3168	3183	
Sand & Shale			3183	3462	Gas Check 3418 20/102" H ₂ O OF
Balltown			3462	3498	
Shales			3498	TD	
TD			3606		Gas On D.C. 30/10 2" OF.

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DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Bonnie Inc.
Well Operator

By: *William J. Bonner* 07/17/2015
Date: *July 27 1987*

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Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."
 10/17

3303438P



BOWIE, INC.

132 Waldeck Street • Clarksburg, West Virginia 26301 • (304) 622-4653

MOROSA #1-84
API # 47-033-3438 ;

BOWIE, INC. BILL BOWIE 622-4653
GEOLOGIST: BRAD THOMAS 592-1530

ESTIMATED LOG

ELEVATION 1193
DEEPEST WATER EXPECTED AT 955'
8 1/2 --- 1050 CASE THROUGH SALT SAND

BL	1510-1575	
BI	1580-1680	GAS CHECK @1750
50'	2150-2200	
30'	2250-2290	GAS CHECK @2250
GORDON	2370-2470	
4TH SAND	2520-2530	GAS CHECK @2500
5TH SAND	2600-2630	
SPEECHLY	3180-3220	GAS CHECK @3100
BALLTOWN	3470-3500	GAS CHECK @3400
TD	3620	GAS CHECK @TD

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WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
Morosa 1-B4

3) API Well No.: 47 - 033 - 03438

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

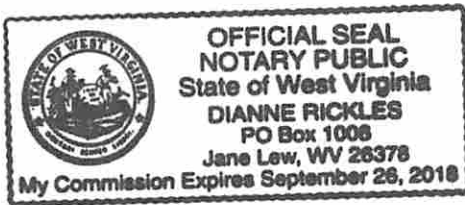
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>William Salerno</u>	Name <u>Murray Energy Corporation</u>
Address <u>148 Twin Pine Rd.</u>	Address <u>46226 National Road</u>
<u>Shinnston, WV 26431</u>	<u>St. Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidation Coal</u>
(c) Name _____	Address <u>1000 Consol Energy Drive</u>
Address _____	<u>Cannonsburg, PA 15317-6506</u>
	Name _____
	Address _____
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 304-884-6000

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Subscribed and sworn before me this 1 day of June 2015
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.

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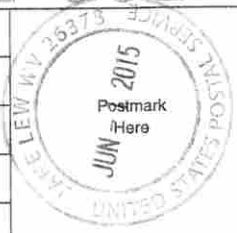
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

CONSOL Energy
 Attn: Mr. Donald Puglio P.G.
 CNX Center
 1000 Consol Energy Drive
 Cannonsburg, PA 15317-6506

Morosa 1-B4
 Plugging Application

or Instructions



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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

William Salerno
 148 Twin Pine Rd.
 Shinnston, WV 26431

Morosa 1-B4
 Plugging Application

or Instructions



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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

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Murray Energy Corporation
 Attn: Alex O'Neil, PE
 46226 National Road
 St. Clairsville, OH 43950

Morosa 1-B4
 Plugging Application

or Instructions



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330 3438P
CK# 7735019
100.00

WW-9
(2/15)

API Number 47 - 033 - 03438
Operator's Well No. Morosa 1-B4

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) Bingamon Creek Quadrangle Shinnston

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

If so, please describe anticipated pit waste: Fluids from plugging operations.

Will a synthetic liner be used in the pit? Yes No If so, what ml.? Yes - 20 mil.

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))

SDW
5/27/2015

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.

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Company Official Signature [Signature]

Company Official (Typed Name) Tim Sands

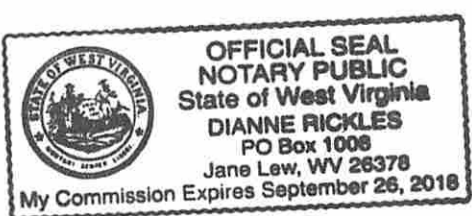
Company Official Title Regulatory Compliance Technician

Subscribed and sworn before me this 1 day of June, 20 15

[Signature] Notary Public

My commission expires Sept. 26, 2018

07/17/2015



Form WW-9

Operator's Well No. Morosa 1-B4

XTO Energy Inc.

Proposed Revegetation Treatment: Acres Disturbed 0.73 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20

Fertilizer amount 1000 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Kentucky Bluegrass	20
		Redtop	3
		Birdsfoot Trefoil	10

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.

Plan Approved by: [Signature]

Comments: _____

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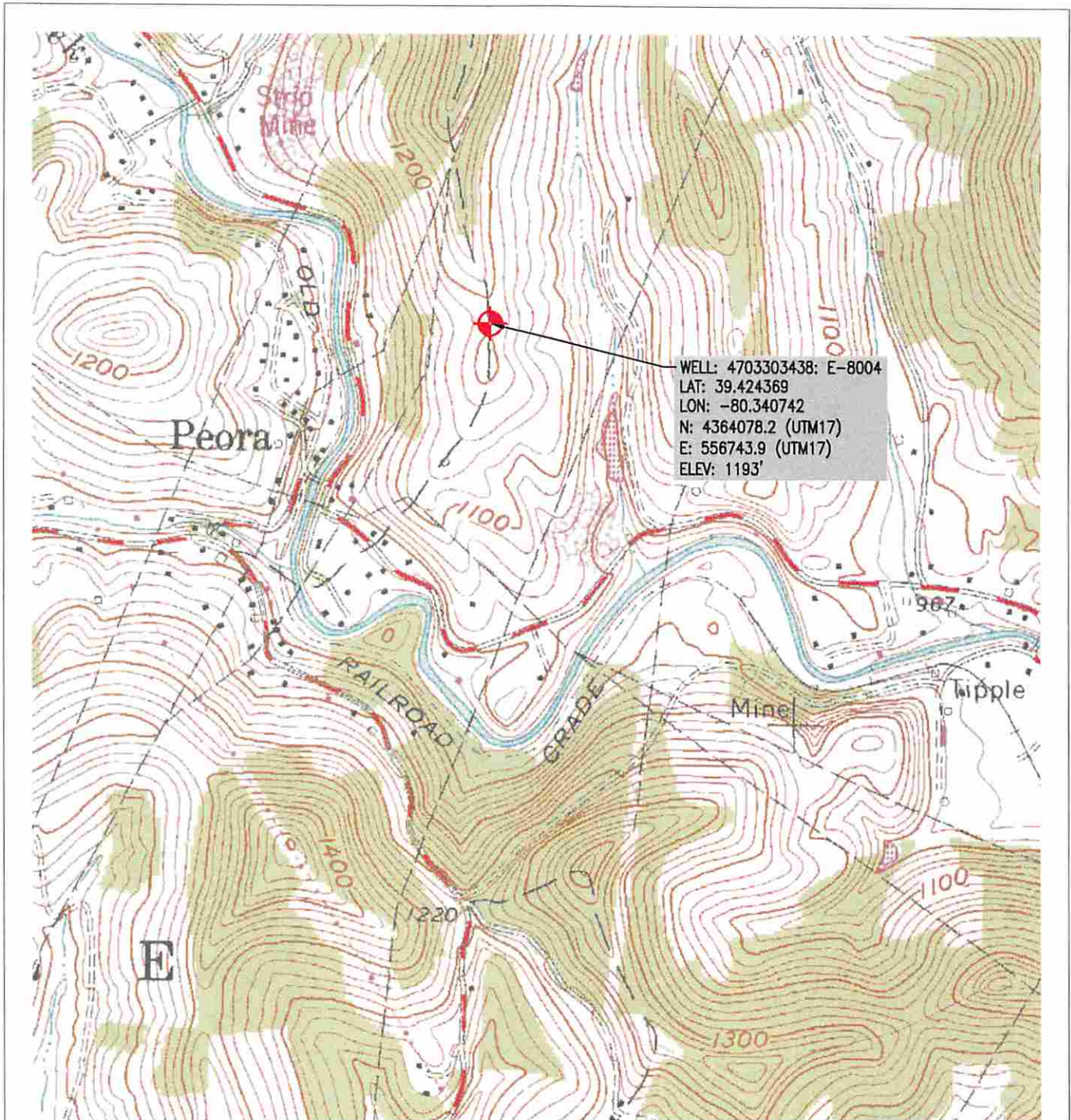
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WV Department of
Environmental Protection

Title: OOG Inspector Date: 5/27/2015

Field Reviewed? () Yes (X) No

07/17/2015



MAP REFERENCE: U.S.G.S. SHINNSTON, WV

	<p>810 HOUSTON STREET FORT WORTH, TX 76102</p> <p>0' 1000'</p> <p>SCALE 1" = 1000'</p>	<p>TRI-COUNTY ENGINEERING, LLC An ENERCON Company 319 Paintersville Road Hunker, PA 15639 www.tricountyeng.com</p> <p>Voice: (724) 635-0210 Fax: (724) 635-0676</p>								
		<p>LOCATION MAP</p> <p>MOROSA E-8004 WELL PLUG</p> <table border="1"> <tr> <td> DRAWN BY: ZJC </td> <td colspan="2"> EAGLE AND CLAY DISTRICTS, HARRISON COUNTY, WEST VIRGINIA </td> </tr> <tr> <td> DATE: 5/12/2015 </td> <td> SHEET: 1 OF 1 </td> <td> FILE NO. OG61-18 </td> </tr> <tr> <td> SCALE: AS NOTED </td> <td colspan="2"></td> </tr> </table>		DRAWN BY: ZJC	EAGLE AND CLAY DISTRICTS, HARRISON COUNTY, WEST VIRGINIA		DATE: 5/12/2015	SHEET: 1 OF 1	FILE NO. OG61-18	SCALE: AS NOTED
DRAWN BY: ZJC	EAGLE AND CLAY DISTRICTS, HARRISON COUNTY, WEST VIRGINIA									
DATE: 5/12/2015	SHEET: 1 OF 1	FILE NO. OG61-18								
SCALE: AS NOTED										

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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-03438 WELL NO.: E-8004

FARM NAME: Morosa

RESPONSIBLE PARTY NAME: XTO Energy, Inc.

COUNTY: Harrison DISTRICT: Eagle and Clay

QUADRANGLE: Shinnston

SURFACE OWNER: William Salerno

ROYALTY OWNER: See attached list

UTM GPS NORTHING: 4364078.2

UTM GPS EASTING: 556743.9 GPS ELEVATION: 364m (1193')

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.

[Signature]
Signature

Project Manager
Title

May 29, 2015
Date

07/17/2015

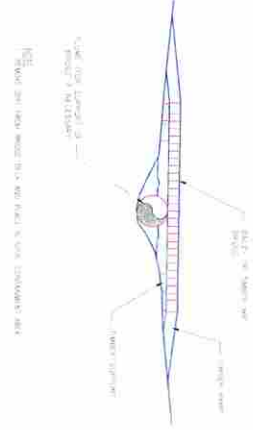
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Royalty Owner List					
Owner #	Owner Name	Address	City	State	Zip
99985	XTO ENERGY INC	810 HOUSTON	FORT WORTH	TX	76102
99985	XTO ENERGY INC	810 HOUSTON	FORT WORTH	TX	76102
252887	STEPHEN R PFLAUM	150 S FIFTH STREET #2300	MINNEAPOLIS	MN	55402
252888	PETER PFLAUM	18070 BREEZY POINT RD	WAYZATA	MN	55391
327756	FERRARI VI OG LLC	C/O FIRST NATIONAL TRUST CO ATTN: SHARON DIABLE 2ND FLOOR 4220 WILLIAM PENN HWY	MONROEVILLE	PA	15146
800178	BRADLEY W THOMAS	4115 COVE POINT DR	MORGANTOWN	WV	26508
800188	RAY ZITZLOFF	122 EDGEWOOD COURT	WAYZATA	MN	55391
801590	SANDRA W. WEIRICH	4344 STONY POINT ROAD	KESWICK	VA	22947
802718	ESTATE OF RANDALL GIBSON	P.O. BOX 3428	MIDLAND	TX	79702
802895	JACOB G FORD	115 OAK TERRACE	STAUNTON	VA	24401
802998	THOMAS H ROMER	1117 RICHLANDS DR	CHARLOTTESVILLE	VA	22903
804063	MARIA ROSA SALERNO ESTATE	RT 1 BOX 123 A1	SHINNSTON	WV	26431
809178	2603-LP LIMITED PARTNERSHIP	3104 PACIFIC ST N STE 300	MINNEAPOLIS	MN	55411
809301	ELMER R. SALOVICH, TRUSTEE	12 OVERHOLT PASS	EDINA	MN	55435
809303	MICHAEL J BABCOCK	4233 STAGECOACH RD	MORRISVILLE	VT	5661
809447	VIRGINIA EXPLORATION INC	PO BOX 21145	WINSTON SALEM	NC	27101-1145
1017994	RICHARD C GIBSON	PO BOX 3817	MIDLAND	TX	79702-3817
1018855	JOHN H BREEDLOVE JR	1407 W CUTHBERT	MIDLAND	TX	79701

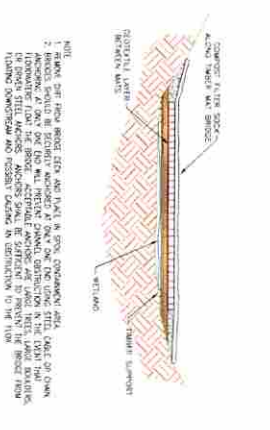
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WV Department of
Environmental Protection

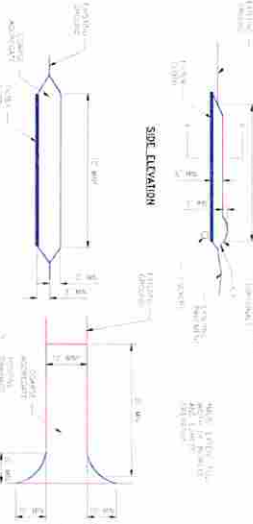
BAILEY OR TIMBER MAT BRIDGE FOR STREAM CROSSING



BAILEY OR TIMBER MAT BRIDGE FOR WETLAND CROSSING



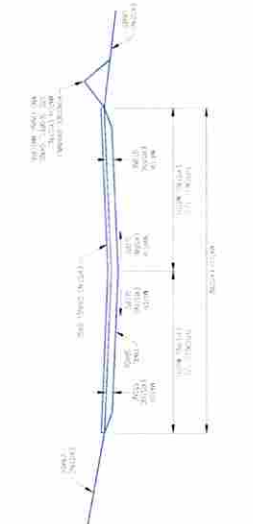
STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION ENTRANCE

1. CONSTRUCTION ENTRANCE SHALL BE STABILIZED TO PREVENT EROSION AND SEDIMENTATION.
2. THE ENTRANCE SHALL BE DESIGNED TO MAINTAIN FLOW VELOCITY AND CHANNEL STABILITY.
3. THE ENTRANCE SHALL BE DESIGNED TO PREVENT WASHING AWAY OF SOIL AND SEDIMENT.
4. THE ENTRANCE SHALL BE DESIGNED TO PREVENT WASHING AWAY OF COMPOST FILTER SOCKS.
5. THE ENTRANCE SHALL BE DESIGNED TO PREVENT WASHING AWAY OF RESIDUAL LAYERS.
6. THE ENTRANCE SHALL BE DESIGNED TO PREVENT WASHING AWAY OF SHOULDER ELEMENTS.
7. THE ENTRANCE SHALL BE DESIGNED TO PREVENT WASHING AWAY OF WETLANDS.
8. THE ENTRANCE SHALL BE DESIGNED TO PREVENT WASHING AWAY OF OTHER STRUCTURES.

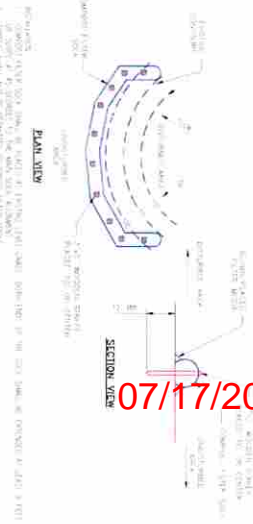
GRAVEL ROAD RESTORATION



GRAVEL ROAD RESTORATION

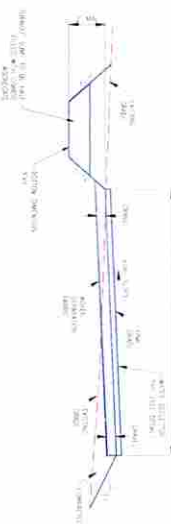
1. GRAVEL ROAD RESTORATION SHALL BE DESIGNED TO PREVENT EROSION AND SEDIMENTATION.
2. THE ROAD RESTORATION SHALL BE DESIGNED TO MAINTAIN FLOW VELOCITY AND CHANNEL STABILITY.
3. THE ROAD RESTORATION SHALL BE DESIGNED TO PREVENT WASHING AWAY OF SOIL AND SEDIMENT.
4. THE ROAD RESTORATION SHALL BE DESIGNED TO PREVENT WASHING AWAY OF GRAVEL.
5. THE ROAD RESTORATION SHALL BE DESIGNED TO PREVENT WASHING AWAY OF OTHER STRUCTURES.

COMPOST FILTER SOCK (SEDIMENT BARRIER)



COMPOST FILTER SOCK (SEDIMENT BARRIER)

1. COMPOST FILTER SOCK (SEDIMENT BARRIER) SHALL BE DESIGNED TO PREVENT EROSION AND SEDIMENTATION.
2. THE SOCK SHALL BE DESIGNED TO MAINTAIN FLOW VELOCITY AND CHANNEL STABILITY.
3. THE SOCK SHALL BE DESIGNED TO PREVENT WASHING AWAY OF SOIL AND SEDIMENT.
4. THE SOCK SHALL BE DESIGNED TO PREVENT WASHING AWAY OF COMPOST.
5. THE SOCK SHALL BE DESIGNED TO PREVENT WASHING AWAY OF OTHER STRUCTURES.



ACCESS ROAD/LOW VOLUME DRIVEWAY

1. ACCESS ROAD/LOW VOLUME DRIVEWAY SHALL BE DESIGNED TO PREVENT EROSION AND SEDIMENTATION.
2. THE DRIVEWAY SHALL BE DESIGNED TO MAINTAIN FLOW VELOCITY AND CHANNEL STABILITY.
3. THE DRIVEWAY SHALL BE DESIGNED TO PREVENT WASHING AWAY OF SOIL AND SEDIMENT.
4. THE DRIVEWAY SHALL BE DESIGNED TO PREVENT WASHING AWAY OF OTHER STRUCTURES.

SOIL TYPE	PERCENT SAND	PERCENT SILT	PERCENT CLAY	PERCENT ORGANIC MATTER
CLAY	15	45	40	0
SILT	45	45	10	0
SAND	40	10	5	0
GRAVEL	0	0	0	0
ROCK	0	0	0	0
COBBLES	0	0	0	0
CONCRETE	0	0	0	0
BRICK	0	0	0	0
GLASS	0	0	0	0
PLASTIC	0	0	0	0
METAL	0	0	0	0
OTHER	0	0	0	0

REVISIONS

NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			



PREPARED FOR:
XTO ENERGY
 810 HOUSTON STREET
 FORT WORTH, TX 76102

TRICOUNTY ENGINEERING, LLC
 4610 DENISON STREET
 FORT WORTH, TEXAS 76105
 817-335-1111
 www.tricountyengineering.com

SEDIMENT CONTROL DETAILS
 MOROSA E-8004 WELL PLUG
 EAST AND CLAY DISTRICTS
 HANCOCK COUNTY, WY
 1/14/2015
 3 OF 3
 D04-11B

RECEIVED
 Office of Oil and Gas
 JUN 04 2015
 WY Department of
 Environmental Protection

07/17/2015

Operator: XTO ENERGY, INC.

API: 3303438

WELL No: MOROSA 1-B4

Reviewed by: g. m. m. Date: 7/9/15

15 Day End of Comment: 06/09/15

NDD
UNEMP
OK
↓
NOW

CHECKLIST FOR FILING A PERMIT

Plugging

CK # 7735019
\$100⁰⁰

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit)

3303438 P



CK# 7735019
\$100⁰⁰

WVDEP
Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304-2345

Re: Application to Plug and Abandon
Morosa 1-B4
Eagle & Clay District
Harrison County, WV

To Whom It May Concern:

In accordance with Article 22-6-23 of the West Virginia State Code regarding oil and gas operations, please find the attached application for the plugging and abandonment of the subject well. Notices of our intention to plug this wellbore have been sent to the surface owner, coal owners with declarations recorded, and coal operators associated with this well. Copies of the certified mail receipts are attached for your records. If you have any questions or need additional information, please feel free to contact me at 304-884-6000.

Sincerely,

A handwritten signature in black ink, appearing to read 'TS' or similar initials.

Tim Sands
PO Box 1008
Jane Lew, WV 26378

RECEIVED
Office of Oil and Gas
JUN 04 2015
WV Department of
Environmental Protection

07/17/2015