

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 penalities 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

8

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

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	i i
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

	APPLICATION FOR A PERMIT TO PEGG AND ADARDON					
4)	4) Well Type: Oil/ Gas X/ Liquid injection/ Waste disposal/ (If "Gas, Production X or Underground storage) Deep/ Shallow X					
5)	Location: Elevation 1193 District Eagle & Clay	Watershed Bingamon Creek County Harrison Quadrangle Shinnston				
	District Lagie & Olay	County Harrison Quadrangle Ommister				
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	9) Plugging Contractor Name Address				
	Buckhannon, WV 26201					
.O)	Work Order: The work order for the mann RIH and check T.D. at 3530', POOH and run 2" tubing down to 3530' and circulate 6% g	ner of plugging this well is as follows: 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 cem	ent 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' a	nd pump cement up to 1450', perfs at 1686' - 1588' pull tubing out of well and RIH with CBL in 4.5 casing				
ć	sement 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	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

Dubrott Date 5/27/2015

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IV-35 (Rev 8-81)

State of Mest Airginia

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Bepartment of Mines Gil und Cas Bivision

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

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL, TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	/ Waste	e Disposal e/ Deep	L/ p/ Sha	11ow_X/)
IOCATION: Elevation: 1193 Watershed_				
District: Clay County Harri	son (Quadrangle	<u>Shinn</u>	ston 7.5
COMPANY Bowie, Inc.		,		Cement
ADDRESS 132 Waldeck St., Clarksburg, WV	Casing	Used in	Left	fill up
DESIGNATED AGENT William H. Bowie	Tubing	Drilling	in Well	Cu. ft.
ADDRESS 132 Waldeck St., Clarksburg, WV	Size		}	
SURFACE OWNER Joseph Salerno et al	20-16 Cond.			
ADDRESS Rt. 1, Shinnston, WV 26431	13-10"	250	250	To Surface
MINERAL RIGHTS OWNER Joseph Salerno et al	9 5/8			
ADDRESS Rt. 1, Shinnston, WV 26431	8 5/8	1050	1050	To Surface
OIL AND GAS INSPECTOR FOR THIS WORK Steve	7			
Casey ADDRESS Rt. 2, Box 232D, Jane Lew 26378	5 1/2			
PERMIT ISSUED May 26, 1987	4 1/2	3572	3572	480 sks
DRILLING COMMENCED July 13, 1987	3			
DRILLING COMPLETED July 17, 1987	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A	Liners used			
GEOLOGICAL TARGET FORMATION Balltown		Der	oth 3600	feet
	Rotary X	/ Cabl	OFFICE REC	EIVED
Water strata depth: Fresh - feet;		feet	:	EIVED Oil and Gas
Coal seam depths: 184'	Ts coal			4 ágga? No
	•	1	NV Don-	
OPEN FLOW DATA Producing formation Balltown Speechl		Envi	NV Depar	tment of
producing formation Balltown Speech	ey Pa	y zone de	oth N	***Otection
Gas: Initial open flow 260 Mcf/d	Oil: In	itial ope	U LTOM MA	BDI/C
Final open flow 650 Mcf/d				
Time of open flow between init	ial and f	inal test	s <u>12</u> h	ours
Static rock pressure 600 psig(surface		ment) aft	er 12 ho	urs snut 1
(If applicable due to multiple completion				07/17/2015
Second producing formation 30 Foot, Fifth San	nd Pa	y zone de	ptn 310	58 fee
Gas: Initial open flow 0 Mcf/d	Oil: Ir	ntial ope	u ITOM //	one port
Final open flowcomingled Mcf/d				
Time of open flow between ini				
Static rock pressurepsig(surfac	e measuren	ment) arte	nc	ors siut I
• •		(Cont	irue on r	everse sid

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

2573-2575 (5 shots) 3174-3176 (5 shots) Fifth Sand $250~{
m sks}~316~{
m Bbl}~{
m SLF}~{
m gelled}$ water $750~{
m gal}~{
m HC}$ Speechley

3462-3465 (7 shots) 3474-3476 (5 shots) Balltown 350 sks 302 Bbl SLF gelled water 500 gal H

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 Sand & Shale Coal Sand & Shale Open Mine Sand & Shale Red Rock Sand & Shale Coal Sand & Shale Coal Sand & Shale Big Lime Big Injun Sand & Shale Pocono Sand & Shale	0 13 161 164 184 202 345 390 740 744 973 980 1514 1577 1676 1680 1701	13 161 164 184 202 345 390 740 744 973 980 1514 1577 1676 1680 1701 2000	JUL 31 1987 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Gas Check 1764 No Show
Gantz Sand & Shale 50 Foot Sand & Shale 30 Foot Sand & Shale Gordon Sand & Shale Fourth Sand & Shale Fifth Sand & Sahle Speechley Sand & Shale Balltown	2000 2010 2116 2210 2224 2263 2396 2443 2490 2500 2560 2585 3168 3183 3462	2010 2116 2210 2224 2263 2396 2443 2490 2500 2560 2585 3168 3183 3462 3498	Gas Check 2265 50/10 2" H ₂ 0 OF Gas Check 2512 70/10 2" H ₂ 0 OF Gas Check 2668 70/10 2" H ₂ 0 OF Gas Check 3107 35/102" H ₂ 0 OF Gas Check 3418 20/102" H ₂ 0 OF
Shales TD	3498 3606	TD	Gas On D.C. 30/10 2" OF. RECEIVED Office of Oil and Ga

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(Attach separate sheets as necessary)

WV Department of Environmental Protection

By:

Date:

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Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including wal, encountered in the drilling of a well."



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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Office of Oil and Gas

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WW-4A 1) Date: Revised 6-07 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 William Salerno Name Murray Energy Corporation Address 148 Twin Pine Rd. Address 46226 National Road Shinnston, WV 26431 St. Clairsville, OH 43950 (b) Coal Owner(s) with Declaration (b) Name Address Name Consolidation Coal 1000 Consol Energy Drive Address Cannonsburg, PA 15317-6506 (c) Name Name Address Address Sam Ward (c) Coal Lessee with Declaration 6) Inspector Address PO Box 2327 Name Buckhannon, WV 26201 Address Telephone 304-389-7583 TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents: 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 The plat (surveyor's map) showing the well location on Form WW-6. (2)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.

My Commission Expires
Oil and Gas Privacy Notice

OFFICIAL SEAL NOTARY PUBLIC State of West Virginia

DIANNE RICKLES

PO Box 1008

Jane Lew, WV 26376 nmission Expires September 26, 2018

Subscribed and sworn before me this

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 depprivacyoffier@wv.gov.

PO Box 1008

304-884-6000

day of

Jane Lew, WV 26378

Regulatory Compliance Technician

Well Operator XTO Energy In

By:

Address

Telephone

WV Department of Environmental Protection

Notary Public



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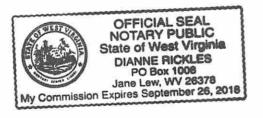
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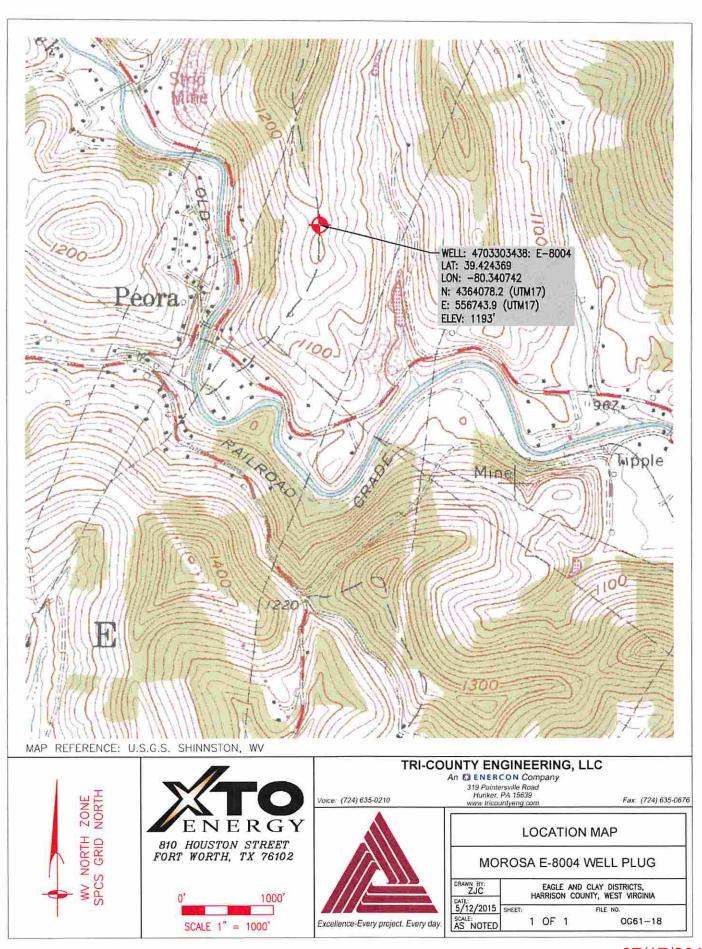
_ - 03438 API Number 47 - 033 - 03438 Operator's Well No. Morosa 1-B4

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 Vo 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:
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)
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, etcNA
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 The State of the
Company Official (Typed Name) Tim Sands Company Official Title Regulatory Compliance Technician
Company Official Title Regulatory Compliance Technician
Subscribed and sworn before me this day of, 20_/5_
Subscribed and sworn before me this
My commission expires Sept. 26, 2018
07/17/2015



TO Energy Inc.		
oposed Revegetation Treatment: Acres Disturbed 0.73		
Lime 3 Tons/acre or to correct to p	Ho	
Fertilizer type 10-20-20	-	
Fertilizer amount 1000	_lbs/acre	
Mulch 3 Ton	s/acre	
<u>s</u>	eed Mixtures	
Temporary	Permanent	t
Seed Type lbs/acre	Seed Type	lbs/acre
Annual Ryegrass 40	Kentucky Bluegrass	20
	Redtop	3
	Birdsfoot Trefoil	10
Prawing(s) of road, location, pit and proposed area for land rovided)		
Orawing(s) of road, location, pit and proposed area for land provided) Photocopied section of involved 7.5' topographic sheet.	application (unless engineered plans includ	ing this info have beer
Orawing(s) of road, location, pit and proposed area for land provided) Photocopied section of involved 7.5' topographic sheet.	application (unless engineered plans includ	ing this info have beer
Prawing(s) of road, location, pit and proposed area for land rovided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	application (unless engineered plans includ	ing this info have beer
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Attach: Drawing(s) of road, location, pit and proposed area for land provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments:	application (unless engineered plans including	ing this info have beer
Prawing(s) of road, location, pit and proposed area for land provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	application (unless engineered plans including	RECEIVED
Prawing(s) of road, location, pit and proposed area for land rovided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	application (unless engineered plans included)	RECEIVED



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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	bistrict: Ea	agle and Clay
QUADRANGLE: Shinnston		
surface owner: William	Salerno	
ROYALTY OWNER: See atta		
UTM GPS NORTHING: 43640		
UTM GPS EASTING: 556743.		TION: 364 4 (193')
The Responsible Party named above I preparing a new well location plat for above well. The Office of Oil and Gasthe following requirements: 1. Datum: NAD 1983, Zone: height above mean sea lev 2. Accuracy to Datum – 3.05 3. Data Collection Method: Survey grade GPS: Post Pro-	a plugging permit or assigned s will not accept GPS coordina 17 North, Coordinate Units: n el (MSL) – meters. meters	API number on the ates that do not meet
	me Differential	
Mapping Grade GPS X: Post I	Processed Differential X	
	Time Differential	
4. Letter size copy of the top I the undersigned, hereby certify this of belief and shows all the information re prescribed by the Office of Oil and Ge	equired by law and the regulat	y knowledge and
Valle LAL	Project Manager	May 29, 2015
Signature	Title	Date
		07/17

07/17/2015

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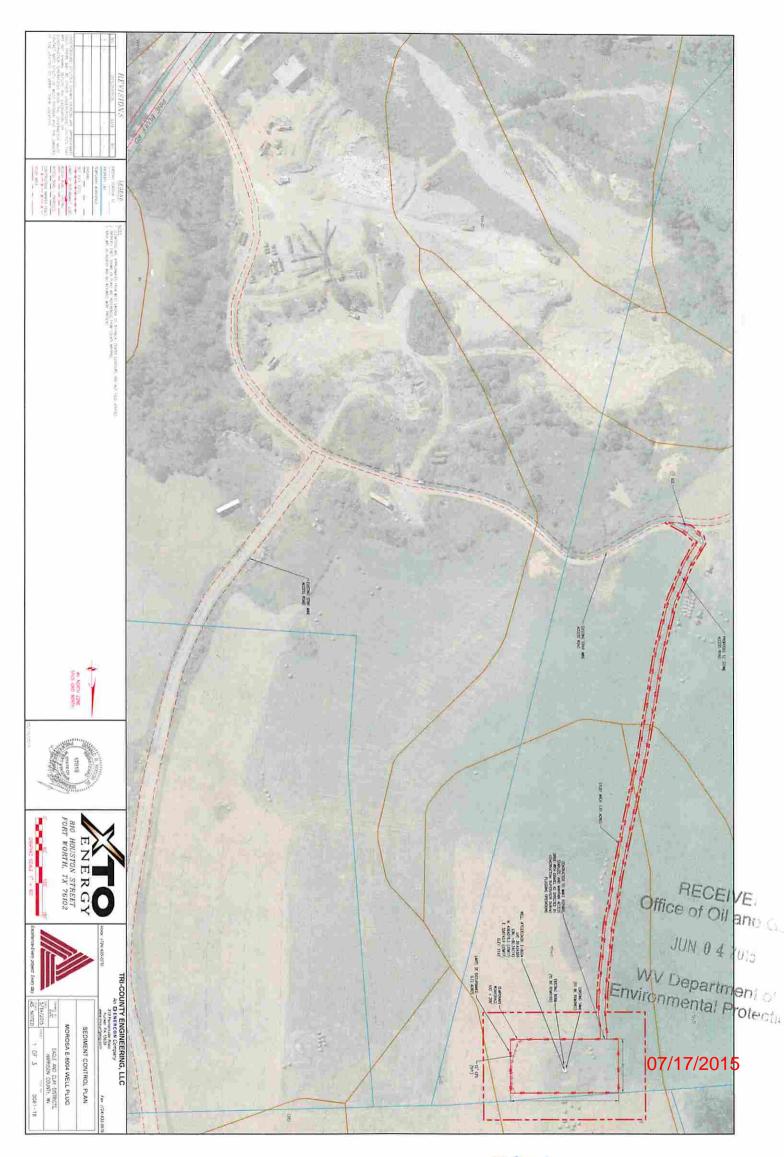
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Owner#	Owner Name	Address	City	State	Zip
99985	XTO ENERGY INC	810 HOUSTON	FORT WORTH	TX	76102
99985	XTO ENERGY INC	810 HOUSTON	FORT WORTH	TX	76102
252887	STEPHEN R PFLAUM	150 S FIFTH STREET #2300	MINNEAPOLIS	MN	55402
252888	PETER PFLAUM	18070 BREEZY 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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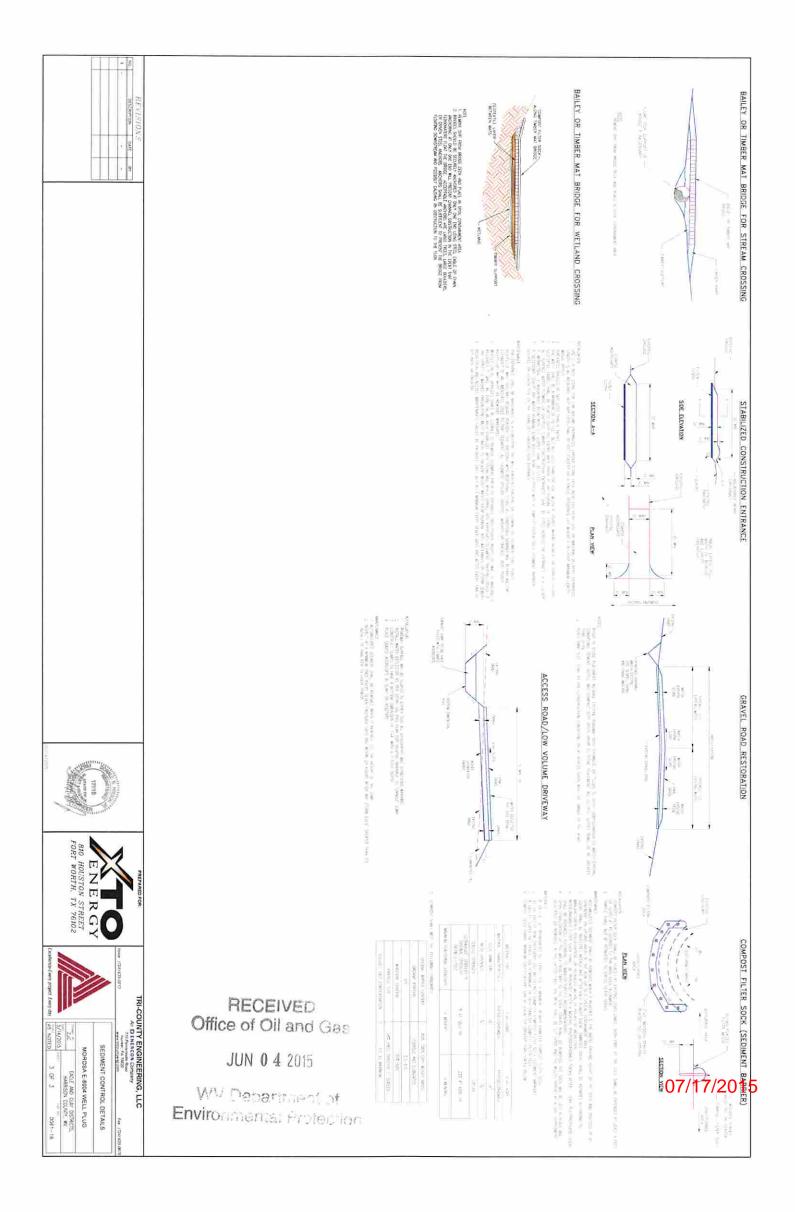
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	Operator:	XTO ENERGY, INC.		
	API:	3303438		
NOO	WELL No:	MOROSA 1-B4		
UNEMA	Reviewed by:	9 mm Date: 7/9/15	<u></u>	
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Nou	7		Plugging	CK# 7735019
		WW-4B		\$10000
		Inspector signature on WW-4B		1100
		Completion / Well Records of Previous Work		
	V	WW-4A (Notarized)		
		Certified Mail Receipts, Waivers, or Affidavit	s of Personal Service	
		Surface Owner Waiver		
		Coal Owner / Lessee /Operator Waiver		
		WW-9 (Page 1) (Notarized)		
	V	Inspector Signature on WW-9 (Optional)		
		Topographic Map of location of well		
	V	WW-7		
		OR		
		Mylar Plat (Surface owner on plat matches W	(W-4A)	
		Bond		
		Company is Registered with the SOS		
	J	Worker's Compensation / Unemployment Ins	urance account is OK	
	UC	\$100.00 check (\$0.00 if no pit)		



CK# 7735019 \$100°=

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,

Tim Sands PO Box 1008

Jane Lew, WV 26378

RECEIVED Office of Oil and Gas

JUN 0 4 2015