



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Thursday, July 25, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

XTO ENERGY, INC.
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for Y3
47-033-02313-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: Y3
Farm Name: ROSSCO LIMITED LIABILITY
U.S. WELL NUMBER: 47-033-02313-00-00
Vertical Plugging
Date Issued: 7/25/2019

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 5/7, 20 19
2) Operator's Well No. Y3
3) API Well No. 47-033-02313 P

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 1,140' Watershed Tenmile Creek
District Sardis County Harrison Quadrangle Wolf Summit

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:

See attached

RECEIVED
Office of Oil and Gas

MAY 14 2019

WV Department of
Environmental Protection

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

Work order approved by inspector S D Ward Date 4/9/2019

47-033-02313 P

API Farm Name Well Number
47-033-02313 Huber, J. N. 3

Elevation: 1,140'

Plugging Procedure

Run tubing tools down the 2" tubing to T.D. at 2,325'.

Pull the old 2" tubing out of well and run good 2" tubing to 2,325'.

6% gel from 2,325' to surface.

5 3/4 O.H.

Cement 2,325' - 1,850' - covering gas at 2,284', 2,256 - 2,248, 2,194' - 1,993',

475' x 0.0321 = 15.2 bbl = 73 sks. Disp. 7 bbl. *WOC*

Pull tubing back up inside the 7" at 1,423', RIH - tag cement. *ADD CEMENT IF NEEDED.*

If cement is ok, then pull the 2" tubing out and RIH with

wireline and run CBL to find free 7", pull all 7" out or cut

where needed. Run 2" tubing back to 1,535', gas at 1,482'.

IF 7" IS CUT MUST PLACE A MINIMUM OF 100' PLUG ACROSS CUT.

6% gel - 1,535' - surface.

Cement - 1,535' - 1,420' = 115 x 0.0321 = 4 bbl = 22 sks. Disp - 5 bbl.

Pull 2" tubing out.

RIH to CBL the 8" casing set at 1,065', pull all casing out or cut

where needed. Run tubing back to 1,190'.

IF CUT MUST PLACE A MINIMUM OF 100' PLUG ACROSS CUT.

6% get 1,115' - surface.

10.5 O.H. Cement - 1,200' - 1,050' = 150'. *S.W.*

Elevation at 1,140'.

Cement 100' - surface. 100' x 0.1070 = 11 bbl = 56 sks.

Install 6" well monument.

Note: If we can't pull the 7" or 8" casing we will request permission from DEP inspector to shoot perforation holes and squeeze cement as needed.

*SOW
4/9/2019*

RECEIVED
Office of Oil and Gas

MAY 14 2019

WV Department of
Environmental Protection

FORM IV-35
(Obverse)
[08-78]

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date March 1, 1979

Operator's Well No. Y-3

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

API Well No. 47
State County Permi

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

LOCATION: Elevation: 973.7 Watershed: Little Tenmile Creek
District: Sardis County: Harrison Quadrangle: Clarksbrig NW 1/4

WELL OPERATOR Eagle Gas Company DESIGNATED AGENT Lorna Hill
Address 211 Main Street Address 211 Main Street
Lumberport, W. Va. 26386 Lumberport, W. Va. 26386

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____

PERMIT ISSUED ON _____, 19____ OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name _____
Address _____, 19____

GEOLOGICAL TARGET FORMATION: Fourth Sand Depth 2281 feet
Depth of completed well, 2325 feet Rotary / Cable Tools
Water strata depth: Fresh, N/A feet; salt, 1044 feet.
Coal seam depths: Below Coal Is coal being mined in the area? Yes
Work was commenced September 22, 1917, and completed N/A, 19____

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds Anchor
Fresh water	10"		32			90'	90'	
Coal								Sizes
Intermediate	8"		24			1065	1065	
Production	7"		17			1423	1423	Depths set 2200
Tubing	2"		41/2			2325	2325	
Liners								Perforations: Top Bottom

RECEIVED
Office of Oil and Gas
MAY 14 2019
WV Department of Environmental Protection

OPEN FLOW DATA
Producing formation Fourth Sand Pay zone depth 2284 feet
Gas: Initial open flow, 218 Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 201 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, _____ hours
Static rock pressure, 46 psig (surface measurement) after 72 hours shut in
[If applicable due to multiple completion--]
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, _____ hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

FORM IV-35
(Reverse)
[08-78]

Huber #3
Well #Y-3

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

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Little Dunkard			420	455	
Big Dunkard			572	656	
Gas Sand			776	794	
1st Salt Sand			800	872	
2nd Salt Sand			937	1095	Water 1044'
Maxon Sand	Shell				
Little Lime			1354	1374	
Pencil Cave			1374	1382	
Big Lime			1382	1438	
Big Indian			1438	1528	Gas 1482'
Beard Sand			1648	1692	
Gantz Sand			1705	1728	
50 ft			1984	2013	Gas 1993'
30 ft			2063	2090	Gas 2082'
Gordon Stray			2194	2218	
Gordon Sand			2233	2264	Gas 2248'-2256'
Fourth Sand			2281	2305	80/10 Water in 2" Gas 2284'
Total Depth				2325	20/10 Water in 2"

(Attach separate sheets to complete as necessary)

Eagle Gas Company
Well Operator

By _____
Its Chief Executive Officer

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."

RECEIVED
Office of Oil and Gas

MAY 14 2019

WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: 5/7/19
2) Operator's Well Number _____
Y3 _____

3) API Well No.: 47 - 033 - 02313

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>Rossco LLC</u>	Name _____
Address <u>PO Box 397</u>	Address _____
<u>Coalton, WV 26257</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address <u>See attached</u>	Name <u>Guy Corporation</u>
_____	Address <u>92 16th St.</u>
(c) Name _____	<u>Wheeling, WV 26003</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name <u>Consolidation Coal Company</u>
<u>Buckhannon, WV 26201</u>	Address <u>1000 Consol Energy Drive</u>
Telephone <u>304-389-7583</u>	<u>Canonsburg, PA 15317</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]
 Title: Regulatory Coordinator
 Address: PO Box 1008
Jane Lew, WV 26378
 Telephone: 304-884-6000

RECEIVED
 Office of Oil and Gas
 MAY 14 2019
 WV Department of
 Environmental Protection

Subscribed and sworn before me this 7th day of May 2019
Yvonne A. Dutchess Notary Public
 My Commission Expires July 9, 2023

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 depprivacyoffier@wv.gov.

API: 47-033-02313

Farm Name: Huber, J.N.

Well Number: Y3

Surface Owners:

Rosco LLC
PO Box 397
Coalton, WV 26257

Mr. & Mrs. James & Gracie Myers
290 Pleasant Hill Rd.
Lumberport, WV 26386

Virginia Tetrick Estate
c/o Guy Corporation
92 16th St., Fl. 2
Wheeling, WV 26003

Patriot Mining Company Inc.
c/o Ark Land Co.
Attn: Land Dept.
1 City Place Dr.
St. Louis, MO 63141

WW-9
(5/16)

API Number 47 - 033 - 02313
Operator's Well No. Y3

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) Tenmile Creek Quadrangle Wolf Summit

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 be put into tanks.

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- 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))

*S DW
4/19/2019*

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

RECEIVED
Office of Oil and Gas

MAY 14 2019

WV Department of
Environmental Protection

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 April 1, 2016, 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 *TS*

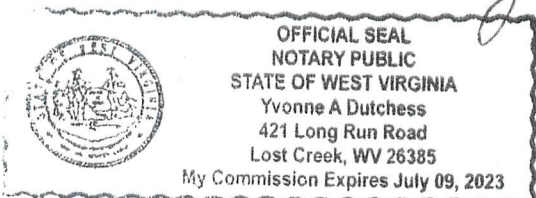
Company Official (Typed Name) Tim Sands

Company Official Title Regulatory Coordinator

Subscribed and sworn before me this 7th day of May, 20 19

Yvonne A. Dutches Notary Public

My commission expires July 9, 2023



Form WW-9

Operator's Well No. 13

Proposed Revegetation Treatment: Acres Disturbed 8.53 +/- 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:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. Wanda

Comments: _____

RECEIVED
Office of Oil and Gas

MAY 14 2019

WV Department of
Environmental Protection

Title: OOG Inspector Date: 4-19-2019

Field Reviewed? () Yes (X) No

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

Operator Name: XTO Energy Inc.
Watershed (HUC 10): Tenmile Creek Quad: Wolf Summit
Farm Name: Huber, J. N.

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

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

NA

RECEIVED
Office of Oil and Gas
MAY 14 2019
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.

WW-9- GPP
Rev. 5/16

Page 2 of 2
API Number 47 - 033 - 02313
Operator's Well No. Y3

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

RECEIVED
Office of Oil and Gas
MAY 14 2019

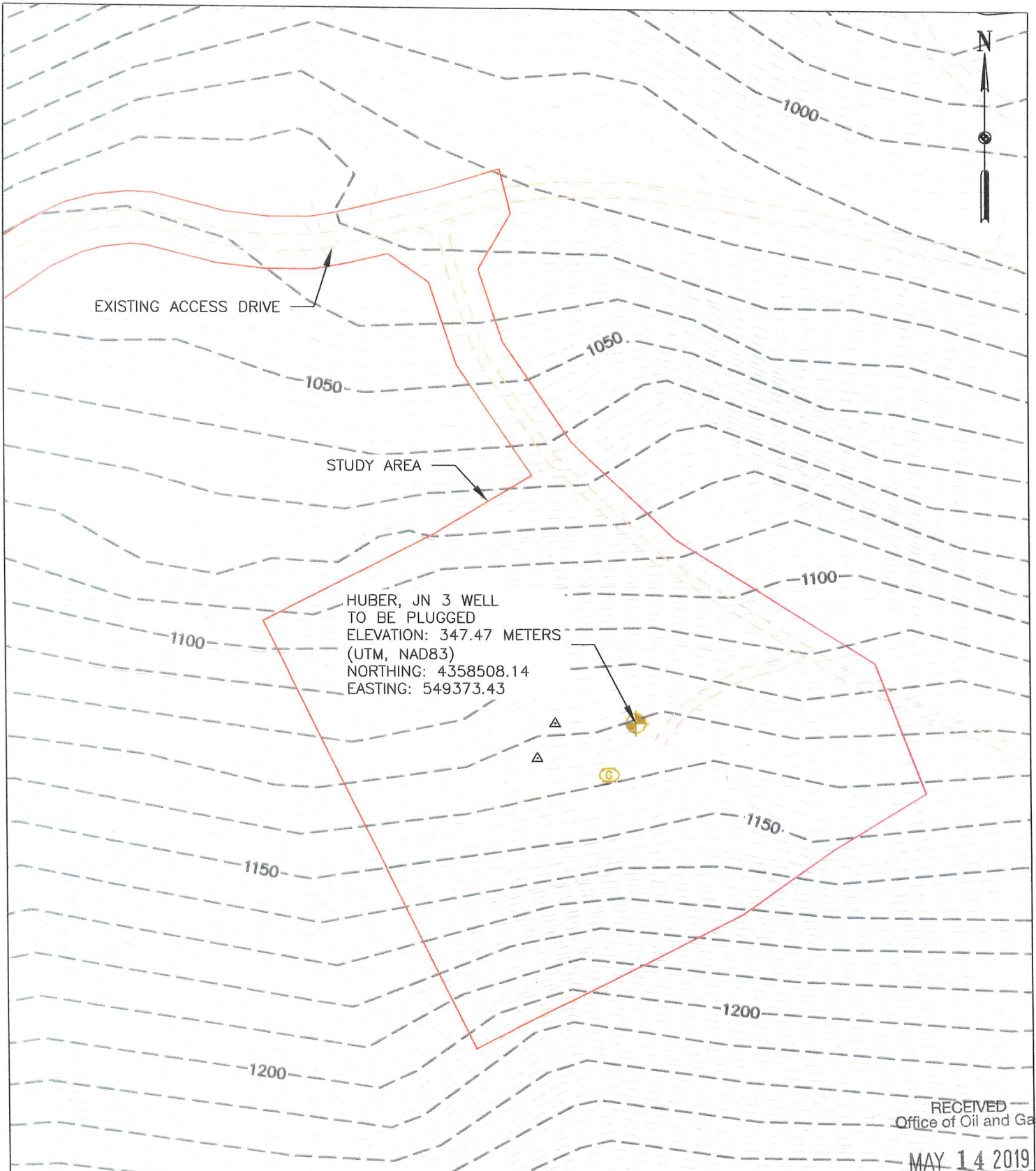
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

WV Department of
Environmental Protection

NA

Signature: ayh

Date: 5/7/19

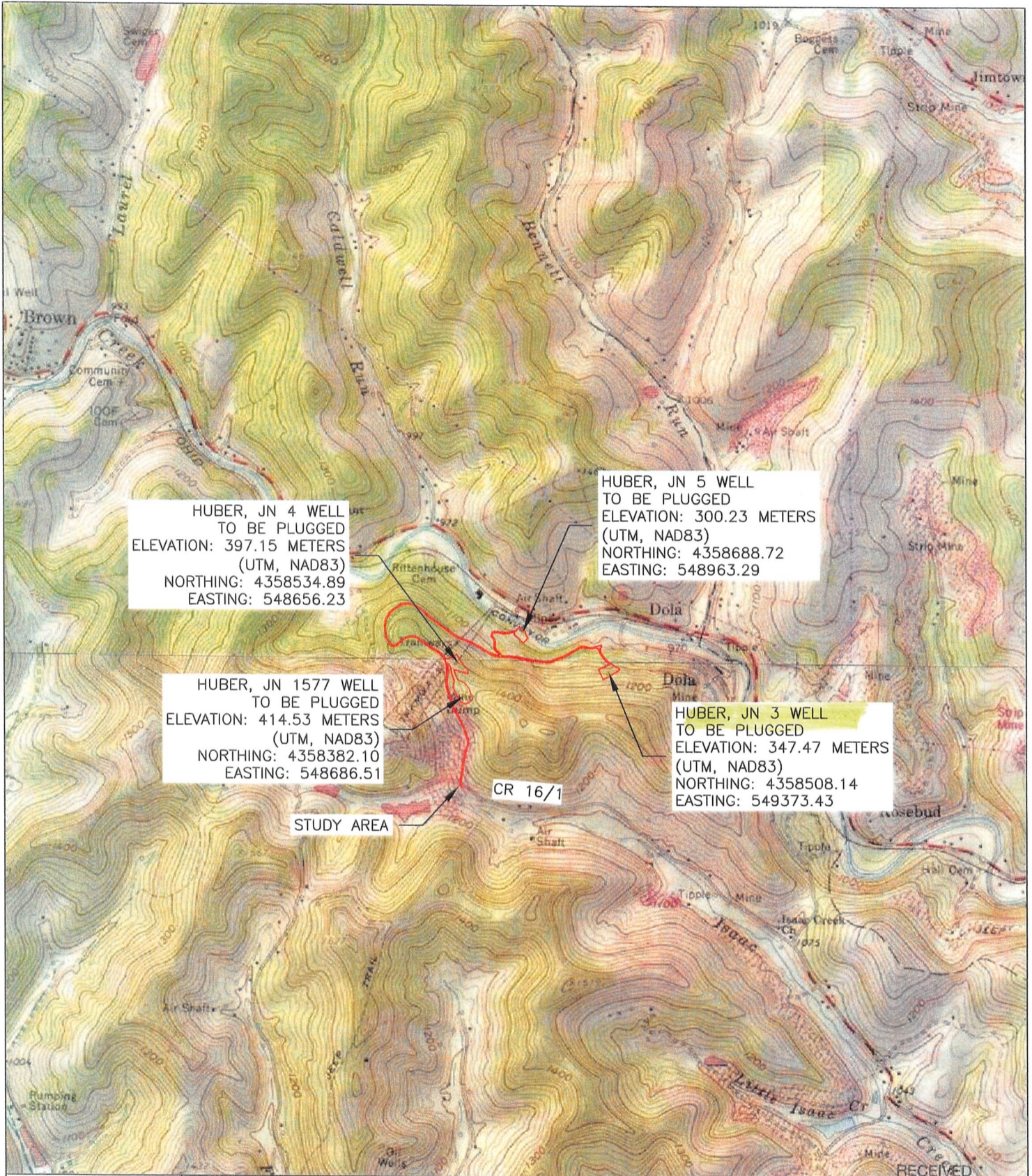


SCALES HORIZ: 1"=100' VERT: CONTOUR INT: 2'	DESN BY: <u>SDG</u> DRWN BY: <u>SDG</u> RVWD BY: <u>MMV</u> FLD BK: BK PG: DATE: <u>3/8/19</u>	REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____	WV Department of Environmental Protection
---	---	--	--

SHEET NUMBER:
1 OF 1

TOPOGRAPHIC MAP
HUBER, JN WELLS
 FOR: XTO ENERGY, INC.
 CR 16/1, SARDIS DISTRICT, HARRISON COUNTY, WEST VIRGINIA

MORRIS KNOWLES & ASSOCIATES, INC.
 A HAMMONTREE COMPANY
 ENGINEERS, PLANNERS, SURVEYORS
 443 ATHENA DRIVE DELMONT, PA 15626
 PHN: (724) 468-4622 FAX: (724) 468-8940
 www.morrisknowles.com



SCALES HORIZ: 1"=2000' VERT: CONTOUR INT: 20'	DESN BY: <u>SDG</u> DRWN BY: <u>SDG</u> RVWD BY: <u>MMV</u> FLD BK: _____ BK PG: _____ DATE: <u>03/8/19</u>	REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____	Office of Oil and Gas MAY 14 2019
	SHEET NUMBER: 1 OF 1	USGS MAP - WALLACE & WOLF SUMMIT QUADRANGLES HUBER, JN WELLS FOR: XTO ENERGY, INC. CR 16/1, SARDIS DISTRICT, HARRISON COUNTY, WEST VIRGINIA	

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-02313 WELL NO.: Y3
 FARM NAME: Huber, Jn
 RESPONSIBLE PARTY NAME: XTO Energy, Inc.
 COUNTY: Harrison DISTRICT: Sardis
 QUADRANGLE: Wolf Summit
 SURFACE OWNER: Rossco Limited Liability Company
 ROYALTY OWNER: See attached
 UTM GPS NORTHING: 4358508.14
 UTM GPS EASTING: 549373.43 GPS ELEVATION: 347.47

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.

Tia Sans
Signature

Regulatory Coordinator
Title

4/4/19
Date

RECEIVED
Office of Oil and Gas

MAY 14 2019

WV Department of
Environmental Protection