



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

Tuesday, August 14, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

XTO ENERGY, INC.
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for LOWE 1 S-10
47-033-02195-00-00

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over the printed name and title.

Operator's Well Number: LOWE 1 S-10
Farm Name: LOWE, HENRY C.
U.S. WELL NUMBER: 47-033-02195-00-00
Vertical Plugging
Date Issued: 8/14/2018

Promoting a healthy environment.

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 7/3, 20 18
2) Operator's
Well No. Lowe 1 S-10
3) API Well No. 47-033 - 02195

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 1378' Watershed 0502000206 Lower West Fork River
District Eagle County Harrison Quadrangle Wallace
- 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:
See attached

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

Work order approved by inspector *S. Debra* Date 7/3/2018

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<u>API</u>	<u>Farm Name</u>	<u>Well Number</u>
47-033-02195	LOWE, HENRY C.	LOWE 1 S-10

Plugging Procedure

4.5 casing at 5,345'

6% gel from 5,340' to surface.

Perfs - 5,250' - 5,197'

Cement - 5,340' - 5,090' = 250' x 0.0159 = 4 bbl = 19 sks

6% gel - 5,090' - 4,810'

Perfs - 4,756' - 4,731'

Cement - 4,810' - 4,625' = 185' x 0.0159 = 3 bbl = 14 sks

6% gel - 4,625' - 4,265'

Perfs - 4,210' - 4,190'

Cement - 4,265' - 4,075' = 190' x 0.0159 = 3 bbl = 14 sks

6% gel - 4,075' - 3,240'

Perfs - 3,180' - 2,865'

Cement - 3,240' - 2,700' = 540' x 0.0159 = 8.6 - 9 bbl = 43 sks

Tag cement, if ok, pull tubing out and RIH to CBL

Cut 4.5 casing at 1,850' and circulate 6% gel back to surface.

Cement - 1,850' - 1,700' = 150' x 0.0602 = 9 bbl = 44 sks.

6% gel - 1700' - 1520'.

Elevation at 1,378' - Bottom of 8 5/8 casing at 1,450'.

Cement - 1,520' - 1,350' = 170' = 11 bbl = 53 sks

6% gel - 1,350' - 1,023'

Coal seam - 970' - 973'

Cement - 1,023' - 940' = 83' x 0.0641 = 5.3 bbl = 26 sks

6% gel - 940' - 700'

Fresh water at 650'

Cement - 700' - 600' = 100 x 0.0641 = 6.4 bbl = 31 sks

6% gel - 600' - 225'

Cement - 225' to Surface = 225 x 0.0641 = 15 bbl = 73 sks.

SDaw
7/3/2018

Install well monument.

We will check on the cement top on the 8 5/8 casing and adjust as needed.

Cement	5,340' - 5,090'
Cement	4,810' - 4,625'
Cement	4,265' - 4,075'
Cement	3,240' - 2,700'
Cement	1,850' - 1,700'
Cement	1,520' - 1,350'
Cement	1,023' - 940'
Cement	700' - 600'
Cement	225' - Surface

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

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

Quadrangle Wallace 7 1/2

Permit No. 47-033-2080
2195

Company Doran & Associates, Inc.
Address 728 Washington Road, Pgh., PA 15228
Farm H. Lowe #1 K-L-263 Acres 26
Location (waters) Harris Fork
Well No. 1 Elev. 1455
District Eagle County Harrison
The surface of tract is owned in fee by Henry C. & Celia J. Lowe, R#1, Box 301
Address Wallace, WV 26448
Mineral rights are owned by same as above
Address _____
Drilling Commenced 12-6-79
Drilling Completed 12-18-79
Initial open flow -- cu. ft. -- bbls.
Final production 474 cu. ft. per day -- bbls.
Well open 72 hrs. before test 1540 RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 1 3/4	30	30	
9 5/8			
8 5/8	1450'	1450'	300 sks.
7			
5 1/2			
4 1/2	5345'	5345'	640 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

STIMULATION RECORD:

DATE:	INTERVAL PERFORATED:	FROM	TO	AMT. FLUID	AMT. SAND
1-20-80		5197	5250	530 BBls.	40,000#
1-20-80		4731	4756	488 BBls.	40,000#
1-20-80		4190	4210	539 BBls.	40,000#

Coal was encountered at 150', 970' Feet _____ Inches
Fresh water 650' Feet _____ Salt Water 1290', 2410' Feet _____
Producing Sand Benson, Bradford, Balltown Depth 5192, 4716, 4184

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	30		
Sand			30	65		
Sand & Shale			65	80		
Sand			80	150		
Coal			150	155		
Shale & Sand			155	185		
Red Rock			185	200		
Shale & Sand			200	210		
Red Rock			210	220		
Shale & Sand			220	255		
Shale			255	280		
Shale & Sand			280	285		
Red Rock			285	340		
Shale			340	830		
Sand			830	850		
Shale			850	895		
Sand			895	960		
Shale			960	970		
Coal			970	973		
Sand & Shale			973	1188		
Red Rock			1188	1210		
Shale			1210	1215		
Red Rock			1215	1230		
Shale			1230	1280		

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DEPT. OF MINES

F. W. @ 650'

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(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1280	1295	S. W. @ 1290'	
Shale			1295	1660		
Lime			1660	1700		
Shale			1700	2410		
Sand			2410	2800	S. W. @ 2410'	
Shale			2800	2910		
Sand & Shale			2910	3000		
Sand			3000	3030		
Shale			3030	3060		
Sand			3060	3085		
Shale			3085	3200		
Sand & Shale			3200	3240		
Shale			3240	3360		
Sand & Shale			3360	3500		
Shale			3500	3665		
Sand & Shale			3665	3835		
Shale			3835	3890		
Sand & Shale			3890	3900		
Shale			3900	5200		
Sand & Shale			5200	5320		
Shaley Sand			5320	5612		
Driller's T.D.				5612		
Speechley			3956	3976		
Balltown			4184	4230		
Bradford			4716	4758		
Benson			5192	5250		
Logger's T.D.				5607		

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Date Feb 1 1980

APPROVED Donald R. Laughlin Owner

By Donald R. Laughlin, Vice President Operations
(Title)

FERC

IV-35
(Rev 8-81)

12/31/86



State of West Virginia
Department of Mines
Oil and Gas Division

Date February 11th, 1986
Operator's
Well No. S-10
Farm Lowe # 1
API No. 47 - 033 - 2195-F

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 ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1455' Watershed Jones Run
District: Eagle County Harrison Quadrangle Wallace

COMPANY Sheldon and Sheldon, Inc:
ADDRESS 901 W. Main St. Suite 201 Bldgpt., WV
DESIGNATED AGENT David J. Sheldon
ADDRESS 118 westwood Ave. Bridgeport, WV 26330
SURFACE OWNER Henry C. & Celia J. Lowe
ADDRESS Rt.1 Box 301 Wallace, WV 26448
MINERAL RIGHTS OWNER Same
ADDRESS Same

OIL AND GAS INSPECTOR FOR THIS WORK

Steve Casey ADDRESS Rt. 2 Box 232-D Jane Lew, WV

PERMIT ISSUED October 30, 1985

DRILLING COMMENCED 2/11/86

DRILLING COMPLETED 2/11/86

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"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

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GEOLOGICAL TARGET FORMATION _____ Depth _____ feet
Depth of completed well _____ feet Rotary ___ / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation 50. 30. Gordon Pay zone depth 2865, - 3180 feet
Gas: Initial open flow No Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 340 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 565 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 Oil: 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

(Continue on reverse side)

45-2195-F

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

Perforation: 2864-3180 - 24 Holes

Fraced Using: 590 bbls of water, 35,000# 20-40 sand
500 gals acid, and 75,000 scf N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
THIS INFORMATION IS SHOWN OF ORIGINAL WELL REPORT.					

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(Attach separate sheets as necessary)

Sheldon and Sheldon, Inc.
Well Operator
By: *[Signature]*
Date: February 11th, 1986

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."

WW-4A
Revised 6-07

1) Date: 7/3/18
2) Operator's Well Number
Lowe, 1 S-10

3) API Well No.: 47 - 033 - 02195

**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>Consolidation Coal Company</u>	Name _____
Address <u>c/o Murray Energy Corp.</u>	Address _____
<u>46226 National Road</u>	
(b) Name <u>Saint Clairsville, OH 43950</u>	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidation Coal Company</u>
	Address <u>Shortline Fuel Co. Coal</u>
	<u>c/o Group Nord - Prop Tax Div</u>
(c) Name _____	Name <u>1800 Washington Rd</u>
Address _____	Address <u>Washington, PA 15241</u>
	<u>-see attached</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 Coordinator
Address PO Box 1008
Jane Lew, WV 26378
Telephone 304-884-6000

Subscribed and sworn before me this 5th day of July 2018
Yvonne A. Dutchesse Notary Public
My Commission Expires September 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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API 47-033-02195

Well Number Lowe, 1 S-10

Additional Coal Owners:

Consolidation Coal Company
1000 Consol Energy Drive
Canonsburg, PA 15317

JayStern, LLC
c/o Murray Energy
Attn: Lane
46226 National Road
St. Clairsville, OH 43950

Guy Corporation
92 16th St. 2nd Floor
Wheeling, WV 26003

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WW-9
(5/16)

API Number 47 - 033 - 02195
Operator's Well No. Low 1 S-10

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) 0502000206 Lower West Fork River Quadrangle Wallace

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)
- Undergound 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
7/3/2018*

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 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 *Tim Sands*

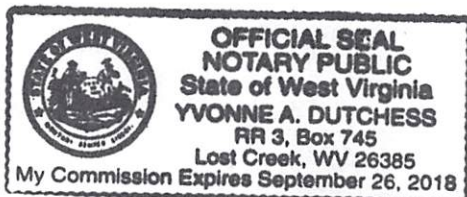
Company Official (Typed Name) Tim Sands

Company Official Title Regulatory Coordinator

Subscribed and sworn before me this 5th day of July, 2018

Yvonne A. Dutches Notary Public

My commission expires September 26, 2018



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Form WW-9

Operator's Well No. Lowe 1 S-10

Proposed Revegetation Treatment: Acres Disturbed 1.07 +/- Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH _____

Fertilizer type 10-20-10

Fertilizer amount 1000 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Kentucky Bluegrass	30	Kentucky Bluegrass	30
Redtop	5	Redtop	5
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15

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: [Signature]

Comments: _____

Title: OOG Inspector Date: 7/13/2018

Field Reviewed? () Yes (X) No

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WW-9- GPP
Rev. 5/16

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API Number 47 - 033 - 02195
Operator's Well No. Low 15-10

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

Operator Name: XTO Energy Inc.

Watershed (HUC 10): 0502000206 Lower West Fork River Quad: Wallace

Farm Name: Low, Henry C.

- 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

- 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.

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WW-9- GPP
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API Number 47 - 033 - 02195
Operator's Well No. Love 2 S-10

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

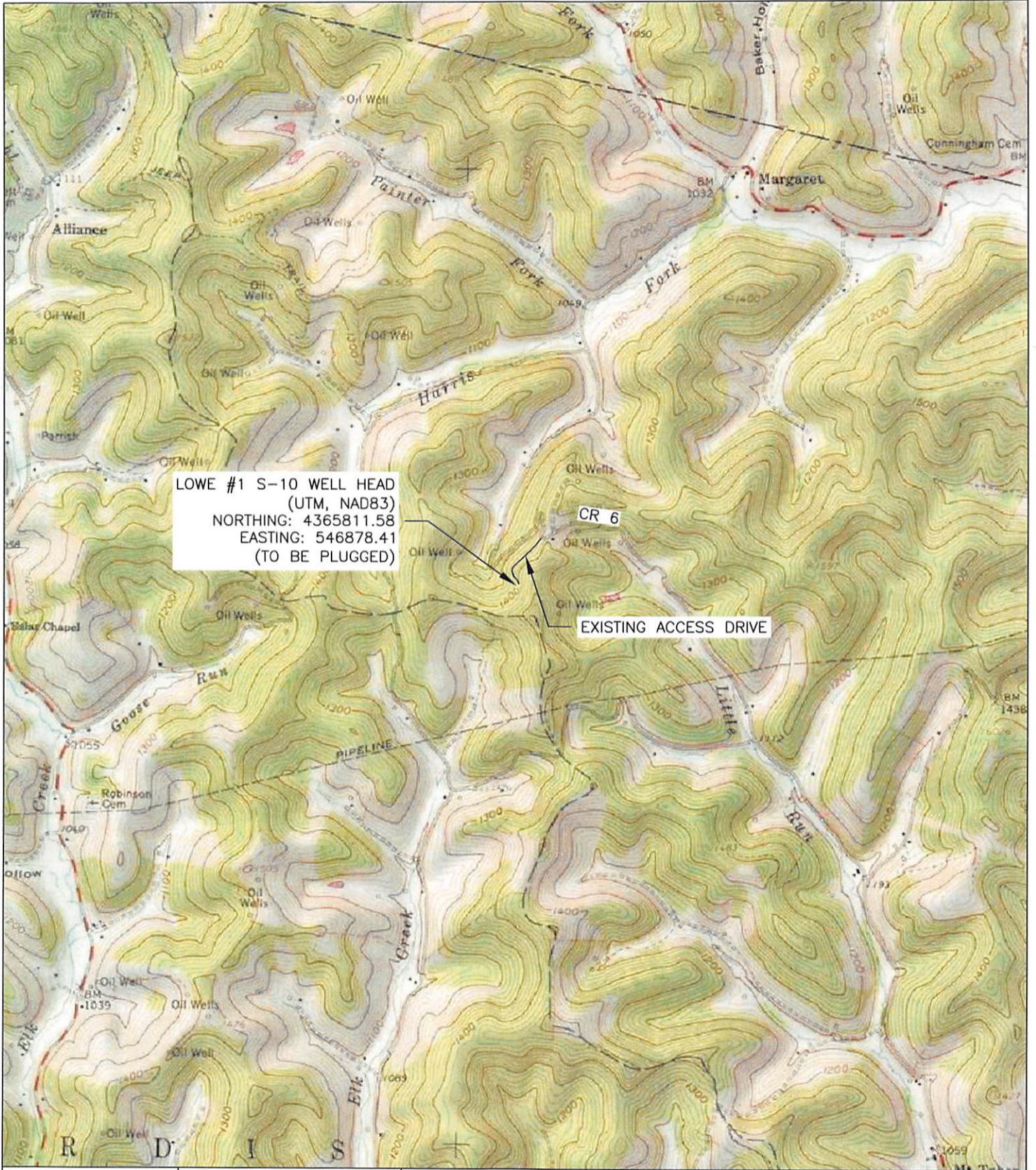
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: Tim Sack

Date: 6/28/18

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LOWE #1 S-10 WELL HEAD
 (UTM, NAD83)
 NORTHING: 4365811.58
 EASTING: 546878.41
 (TO BE PLUGGED)

EXISTING ACCESS DRIVE

<p>SCALES HORIZ: 1"=2000' VERT: CONTOUR INT: 20'</p>	<p>DESN BY: SDG DRWN BY: SDG RVWD BY: MMV FLD BK: BK PG: DATE: 06/12/18</p>	<p>REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____ REV. BY: _____ DATE: _____ DESC.: _____</p>
<p>SHEET NUMBER: 1 OF 1</p>	<p>USGS MAP - WALLACE QUADRANGLE LOWE #1 S-10 FOR: XTO ENERGY, INC. CR 6, HARRISON COUNTY, WEST VIRGINIA</p>	

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

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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: 47-033-02195 WELL NO.: Lowe 1 S-10

FARM NAME: Lowe, Henry C.

RESPONSIBLE PARTY NAME: XTO Energy, Inc.

COUNTY: Harrison DISTRICT: Eagle

QUADRANGLE: Wallace

SURFACE OWNER: Consolidation Coal Company

ROYALTY OWNER: See Attached

UTM GPS NORTHING: 4365811.58

UTM GPS EASTING: 546878.41 GPS ELEVATION: 419.98 / 1378'

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 X: Post Processed Differential X

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.

Tim Lamb Regulatory Coordinator 6/14/18
Signature Title Date

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