

west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> 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

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.

## 33-02195P

## **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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

### 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.

33-02195P

WW-4B Rev. 2/01

1) Date 7/3	,	20 18	2
2) Operator's			
Well No. Lowe 1 S-10			
3) APT Well No. 47-03	3	- 02195	-

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

)		derground 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
3)	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

Dectarates

Date 7/3/2018

08/17/2018

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JUL 23 2018 WV Department of Environmental Protection

API	Farm Name	Well Number		
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. <u>Perfs - 5,250' - 5,197'.</u> Cement - 5,340' - 5,090' = 250' x 0.0159 = 4 bbl =19 sks 6% gel - 5,090' - 4,810'. <u>Perfs - 4,756' - 4, 731'</u> Cement - 4,810' - 4,625' = 185' x 0.0159 = 3 bbl = 14 sks 6% gel - 4,625' - 4,265' <u>Perfs - 4,210' - 4,190'</u> Cement - 4,265' - 4,075' = 190' x 0.0159 = 3 bbl = 14 sks 6% gel - 4,075' - 3,240' <u>Perfs - 3,180' - 2,865'</u> 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'. <u>Elevation at 1,378' - Bottom of 8 5/8 casing at 1,450'.</u> 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' <u>Fresh water at 650'</u> 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.

50au 7/3/2018

Install well monument.

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

Cement5,340' - 5,090'Cement4,810' - 4,625'Cement4,265' - 4,075'Cement3,240' - 2,700'Cement1,850' - 1,700'Cement1,520' - 1,350'Cement1,023' - 940'Cement700' - 600'Cement225' - Surface

### 08/17/2018

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Oil.

Gas.

Water Flood\_\_\_\_ Storage\_

Comb.

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STATE OF WEST VIRGINIA DEPARTMENT OF MINES

## Oil and Gas Division

#### WELL RECORDS2

Quadrangle\_Wallace 7 1/2

Permit No. 47-033-2080

	0112					(Kind)
Address 728 Farm H. Lowe	ran & Associates, Inc. 3 Washington Road, Pgh., 2 #1 K-L-263 Acres		Casing and 5228 Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Well No. 1 District Eagle	) <u>Harris Fork</u> Elev Elev County_Harriso	on	Size 20-1 6 Cond			· ·
	ract is owned in fee by Henry (	C. &	13-10" 11 3/4		30	
	owe, R#1, Box 301	· · · · · · · · · · · · · · · · · · ·	9 5/8			
Address Walla	ace, WV 26448		8 5/8	1450	1450*	300 sks.
Mineral rights are	owned by same as above		7		•	•
Ad	dress		5 1/2			
-	ced <u>12-6-79</u> cd <u>12-18-79</u>		<u>4 1/2</u> 3	5345 '	5345'	640 sks
	cu. ft	bbls.	2			
Final production.	474_00 cu. ft. per day	hbls	Liners Used			
Well open	72 hrs. before test 154	0# 22				
Well treatment de			Attach copy of ce	-	•	
DATE:	INTERVAL PERFORATED:	FROM	ΠΩ <u>Αλατ</u>	the second se		N RECORD:
1-20-80	INTERVAL FERFORATED:	FROM	TO AME FLU		TT. SAND	
		5197	5250 530 E	SBls.	40.000#	· · · · · ·

			THIM THOTH	MILL . OMIND	
1-20-80	5197	5250	530 BB1s.	40,000#	,
1-20-80	4731	4756	488 BB1s.	40,000#	
1-20-80	4190	4210	539 BB18.	40,000#	

Coal wa Fresh w Producin

. Feet 184

Rotary\_

Recycling

Disposal

Cable\_

as encountered at	150', 970'		Feet	 Inches	
water650'		Feet	•	ter_1290'	
ing Sand Benson,	Bradford,	Balltown		5192, 47	

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Substructure	0.	30	
Sand	30	65	
Sand & Shale	65	80	1011Starts Constru
Sand	· 80	150	
Coal	150	155	
Shale & Sand	. 155	185	33
Red Rock	185	200	FEB - 4 1980
Shale & Sand	200	210	
Red Rock	210	220	
Shale & Sand	220	255	OIL & GAS DIVISION
Shale	255	280	DEPT. OF MINES
Shale & Sand	280	285	
Red Rock	285	340	
Shale	340	830	F. W. @ 650'
Sand	830	850	
Shale	850	895	
Sand	895	960	•
Shale	960	970	
Coal	970	973	RECEIVED Office of Oil and 89 7/2018
Sand & Shale	973	1188	Office of Oil and
Red Rock	1188	1210	JUL 23 2018
Shale	1210	1215	JUL DU -
Red Rock	1215	1230	no pepartment of
Shale	1230	1280	WV Department of Environmental Protection

(over)

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· Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feets	Bottom Feet	Oil. Gus on Water * Remarks
Sand Shale	1280 1295	1295 1660	S. W. @ 1290'
Lime	1660	1700	
Shale	1700	2410	
Sand	2410	2800	S. W. @ 2410'
Shale	2800	2910	
Sand & Shale Sand	2910 3000	3000 3030	
Sand	3030	3060	
Sand	3060	3085	
Shale	3085	3200	
Sand & Shale	3200	3240	
Shale	3240	3360	
Sand & Shale	3360	3500	
Shale Sand & Shale	3500 3665	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 5192	4758 5250	
Benson Logger's T.D.	5192	5607	
Logger 8 1.D.		5007	
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		1	08/17/2018

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

33-02195P

FERC					
FERC (Rev 8-81) (2/31/86		Date	February	11th, 1986	
State of J	Best Airgin	well N	0. <u>5-10</u>		
	•		Lowe #		
	nt of Mines			<u> </u>	
	Bas Bivision		• 4/ -	033 - 2195	-1-
	IOR'S REPORT				
DRILLING, FRACTURING AND/OR S	TIMULATING, C	R PHYSICA	L CHANGE		
WELL TYPE: Oil / Gas X / Liquid Inject (If "Gas," Production / Underg LOCATION: Elevation: 1455' Watershed	ground Storag	re/ Dee	1/ p/ Sha	allow/)	
District: Eagle County Ha			• Walle		•
		guaurangr	ewalla	ce	
			•		_
COMPANY Sheldon and Sheldon, Inc:				<u> </u>	-
ADDRESS 901 W. Main St. Suite 201 Brdgpt., WV		r	F	Coment	ר
DESIGNATED AGENT David J. Sheldon	Casing	Used in	Left	Cement fill up	
	Tubing	Drilling	in Well	Cu. ft.	
ADDRESS 118 westwood Ave. Bridgeport, WV 2633	10166				1
SURFACE OWNER Henry C. & Celia J. Lowe	20-16 Cond.				i
ADDRESS Rt.1 Box 301 Wallace, WV 26448	13-10"				1
MINERAL RIGHTS OWNER Same					ł
ADDRESS Same	9 5/8				ł
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8				1
Steve Casey ADDRESS Rt. 2 Box 232-D Jane Lev	7 W		F	ECEIVED	
PERMIT ISSUED October 3 , 1985	5 1/2		-	of Oil and Gas	
DRILLING COMMENCED	4 1/2		JU	2 3 2018	
DRILLING COMPLETED 154 2/11/86	3			Department of	
	2		Enviror	mental Protectic	n
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR					Į
REWORKING. VERBAL PERMISSION OBTAINED	Liners used				
ONN/a	useu				ł
GEOLOGICAL TARGET FORMATION					1
		Dept	h	feet	
Depth of completed wellfeet	Rotary	_/ Cable	Tools		
Water strata depth: Freshfeet	; Salt	feet			
Coal seam depths:	Is coal h	eing mine	d in the	area?	
OPEN FLOW DATA				<del></del>	
Producing formation 50. 30. Gordon	<b>D</b>				
Gas: Initial open flow No. Mos /a	Pay	zone dept	<u>h 2865, -</u>	<u>3180</u> feet	
Gas: Initial open flow No Mcf/d	OII: INIt	ial open :	flow	Bbl/d	
Final open flow 340 Mcf/d	Fina	l open flo	JW	Bbl/d	
Time of open flow between in	itial and fin	al tests_	4_hou	írs	
Static rock pressure 565 psig(surfa	ace measureme	nt) after	<u>72</u> hour	s shut in	+
represente and to mattiple completio	on)			1	<u>с</u>
Second producing formation	Pay	zone depti	ı	08/17/20	J <b>1</b> 8
Gas: Initial open flow Mcf/d	Oil: Init	ial open i	Flore	Rh1 /A	$\sim$
Final open flowMcf/d	Oil: Fina	l open fla	 W	, U/1/1 ,	Ā
The of open flow between ini	itial and fin	al tests	<b>h</b>	Bbl/d	
Static rock pressurepsig(surfac		LEDLD	nou	IS	-
		- alter_	hour:	s shut in	
		(Continu	e on reve	erse side)	

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FORM IV-35 (REVERSE)

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

Perforation: 2864-3180 - 24 Holes

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

ORMATION	COLOR	HAR	DOR		TOP	FEET	BOTTOM	FEET	Including and salt w	REMARKS indication water, coa	on of all fres
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				6	Attaci	h separ	ata shea	its a	necessary.	,	WV Department Environmental Pro
			•			•			, necessary,	,	
			•			S	leldon at	d_She	ldon, Inc.		
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		· • •			By:	K la	¥€#	U	th_		08/17/201
:		• • •	· .		Date	F	bruary 1	<u>lth,</u>	1986		
te: Reau	Latio	n 2 /	12/21		1	follo			stematic		

02195

WW-4A Revised 6-07

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

033

3) API Well No.: 47 -

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

<ol> <li>Surface Ow</li> <li>(a) Name</li> </ol>	ner(s) to be served: Consolidation Coal Company	i) (a) Coal Operator Name
Address	c/o Murray Energy Corp.	Address
	46226 National Road	
(b) Name	Saint Clairsville, OH 43950	(b) Coal Owner(s) with Declaration
Address		Name Consolidation Coal Company
		Address Shortline Fuel Lo. Coal
	-	C/o Group No.2 - Prop Tax Div
(c) Name		Name 1800 Washington Rd
Address		Address Wastington PA 15241
		-Sec attached
6) Inspector	Sam Ward	(c) Coal Lessee with Declaration
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:

(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 

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.

OFFICIAL SEAL NOTARY PUBLIC	Well Operator By:	XTO Energy Inc.
State of West Virginia	Its: Address	Regulatory Coordinator
WONNE A. DUTCHESS RR 3, Box 745		PO Box 1008
Lost Creek, WV 26385		Jane Lew, WV 26378
y Commission Expires September 26, 2018	Telephone	304-884-6000
Subscribed and sworn before met	- II.	

our personal information may be disclosed to other State agencies or third parties in the normal course of gulatory duties. 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 <u>depprivacyoffier@wv.gov</u>.

## 08/17/2018

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JUL 2 3 2018

WV Department of Environmental Protection

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 16<sup>th</sup> St. 2<sup>nd</sup> Floor Wheeling, WV 26003

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## 08/17/2018

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JUL 2 3 2018

WV Department of Environmental Protection WW-9 (5/

Ac

(5/16)		API Number 47	_ 033 _ 02195		
(5/10)		Operator's Well	No. Lowe 1 5-	-10	
	STATE OF WE DEPARTMENT OF ENVIRO OFFICE OF C FLUIDS/ CUTTINGS DISPOS/	ONMENTAL PROTECTION DIL AND GAS			
Operator Name XTO Energy Inc.		OP Code 494	4487940		
Watershed (HUC 10) 0502000206	S Lower West Fork River	Quadrangle Wallace			
Do you anticipate using more than Will a pit be used? Yes	No 🗸				
	cipated pit waste: Fluids from p				
Will a synthetic liner be u	ised in the pit? Yes N	In $\boxed{\checkmark}$ If so, what ml.? N	A		
Proposed Disposal Metho	od For Treated Pit Wastes:				
Undergi	pplication (if selected provide a c round Injection (UIC Permit Nu (at API Number		4708509721	)	SPW 7/3/2010
Off Site	Disposal (Supply form WW-9 Explain Meadowbrook Landfill SW	for disposal location) VF#1032, RES Water Recycling -V	VMGR123SW005 (PA)		7151-
Will closed loop systembe used?	If so, describe: NA				
Drilling medium anticipated for th	is well (vertical and horizontal)?	Air, freshwater, oil based, etc	2. NA - Plugging		
-If oil based, what type?	Synthetic, petroleum, etc. NA				
Additives to be used in drilling me	dium? 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 Company Official (Typed Name) Tim Sands Company Official Title Regulatory Coordinator 5th 18 Subscribed and sworn before me this day of 20 Notary Public 8 My commission expires 08/17/2018 RECEIVED Office of Oil and Gas OFFICIAL NOTARY PUBLIC JUL 23 2018 West Virginia State of VONNE A. DUTCHESS WV Department of Environmental Protection RR 3, Box 745 Lost Creek, WV 26385 My Commission Expires September 26, 2018

Proposed Revegetation Treatment	• Acres Disturbed 1.07 •		Well No. Lowe 1 5-
	Tons/acre or to correct to	рН	
Fertilizer amount 1000		_lbs/acre	
Mulch_2	Tc	ns/acre	
	5	Seed Mixtures	
Tempor	ary	Pern	nanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Kentucky Bluegrass	30	Kentucky Bluegras	ss 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.

nents:						
MAR	spector		Date:	12/2/201	8	

08/17/2018

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Page	of
API Number 47 - 033	- 02195
Operator's Well No. Lo	we 1 5-10

### 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: Lowe	Menry 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.

08/17/2018

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WW-9- GPP Rev. 5/16 
 Page
 of

 API Number
 47 - 033
 - 02195

 Operator's Well No.
 \_\_\_\_\_\_
 \_\_\_\_\_\_

NA

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

NA

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.

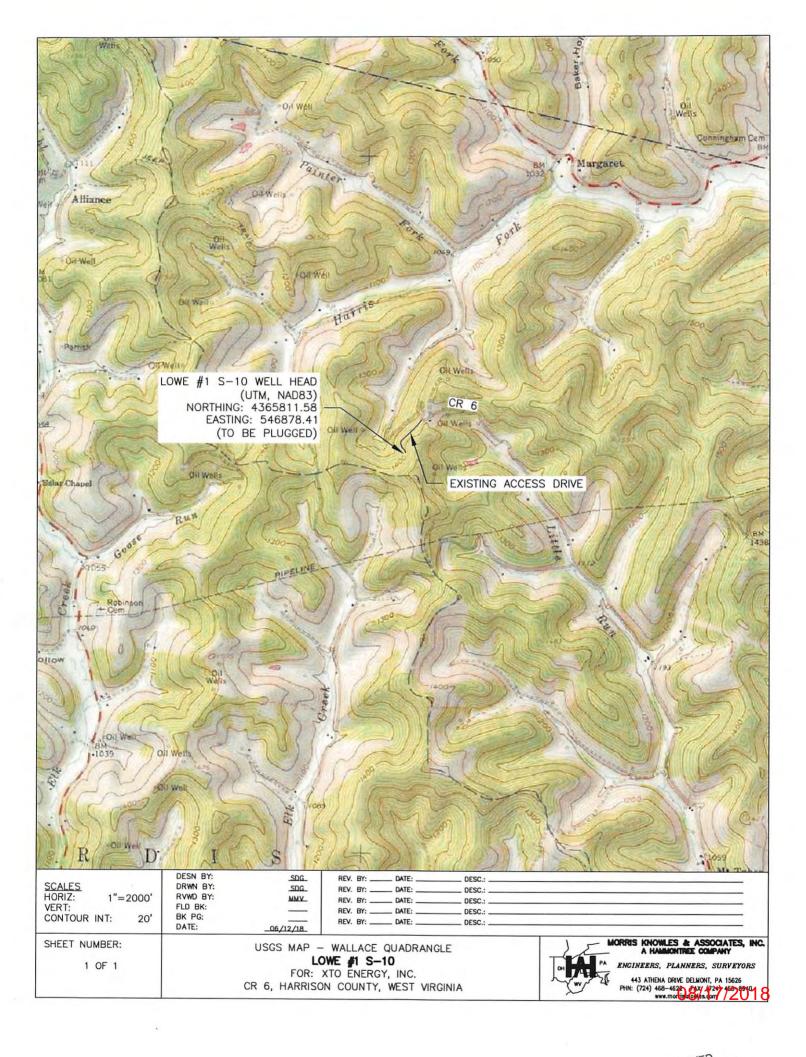
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA	 	
Signature: Tin Sant	 	
Date: 6/2-8/18		

08/17/2018

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# 33-02195P



RECEIVED Office of Oil and Gas JUL **2 3 2018** WV Department of Environmental Protection

8-30-06	
U I	of Environmental Protection
	Oil and Gas T <b>ION FORM: GPS</b>
<sub>АРІ:</sub> 47-033-02195	well No.: Lowe 1 S-10
FARM NAME: Lowe, Henry C	
RESPONSIBLE PARTY NAME: XTO	
	DISTRICT: Eagle
QUADRANGLE: Wallace	
SURFACE OWNER: Consolidati	on Coal Company
ROYALTY OWNER: See Attach	
UTM GPS NORTHING: 4365811.	
UTM GPS EASTING: 546878.41	GPS ELEVATION: 419.98

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: 1.
- 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

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

Regulatory Coordinator 6/14/18 Title Date Sant Signature

08/17/2018

Office of Oil and Gas WV Department of Environmental Protection