

#### 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 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Tuesday, October 17, 2017 WELL WORK PERMIT Vertical / Plugging

SHALE GAS PRODUCTION, LLC 929 CHARLESTON ROAD

SPENCER, WV 25276

Re: Permit approval for 1 47-039-01172-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: 1

Farm Name: KANAWHA & HOCKING U.S. WELL NUMBER: 47-039-01172-00-00

Vertical / Plugging

Date Issued: 10/17/2017

Promoting a healthy environment.

#### I

### 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 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.L.M. Bryan		
3) API Well No. 47-3		- 01172

## STATE OF WEST VIRGINIA

DEPARTMENT OF ENVI	RONMENTAL PROTECTION OIL AND GAS
APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas X/ Liquid  (If "Gas, Production X or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow
5) Location: Elevation 711.28  District Jefferson	
6) Well Operator Address Address Shale Gas Production, LLC 929 Charleston Road Spencer, WV 25276	7) Designated Agent J. Scott Freshwater  Address 929 Charleston Road  Spencer, WV 25276
8) Oil and Gas Inspector to be notified  Name Terry Urban  Address P.O. Box 1207  Clendenin, WV 25045	9) Plugging Contractor  Name Contractor Services Inc. of WV  Address 929 Charleston Road  Spencer, WV 25276
Prep Location; move in; rig up. Pull tubing pact from bottom to packer depth. If packer release Cement to bottom of 7"-2109'. Try to puse Set cement plugs accordingly. Cement	all and recover 313' of 8";  bond log 7" casing; attempt to recover  perforate casing. MAKE SURE TO COJEN SACT SAUD ≈ 8  pint of 7", approx. 100' below.  to inspector.  The same saud are sure to cojen sact saud ≈ 8  pint of 7", approx. 100' below.  The same saud are saud
Notification must be given to the district of work can commence.  Work order approved by inspector	Date 8-3-14  Page 10 Page 10 Page 17 Page 17 Page 17 Page 17 Page 18 P

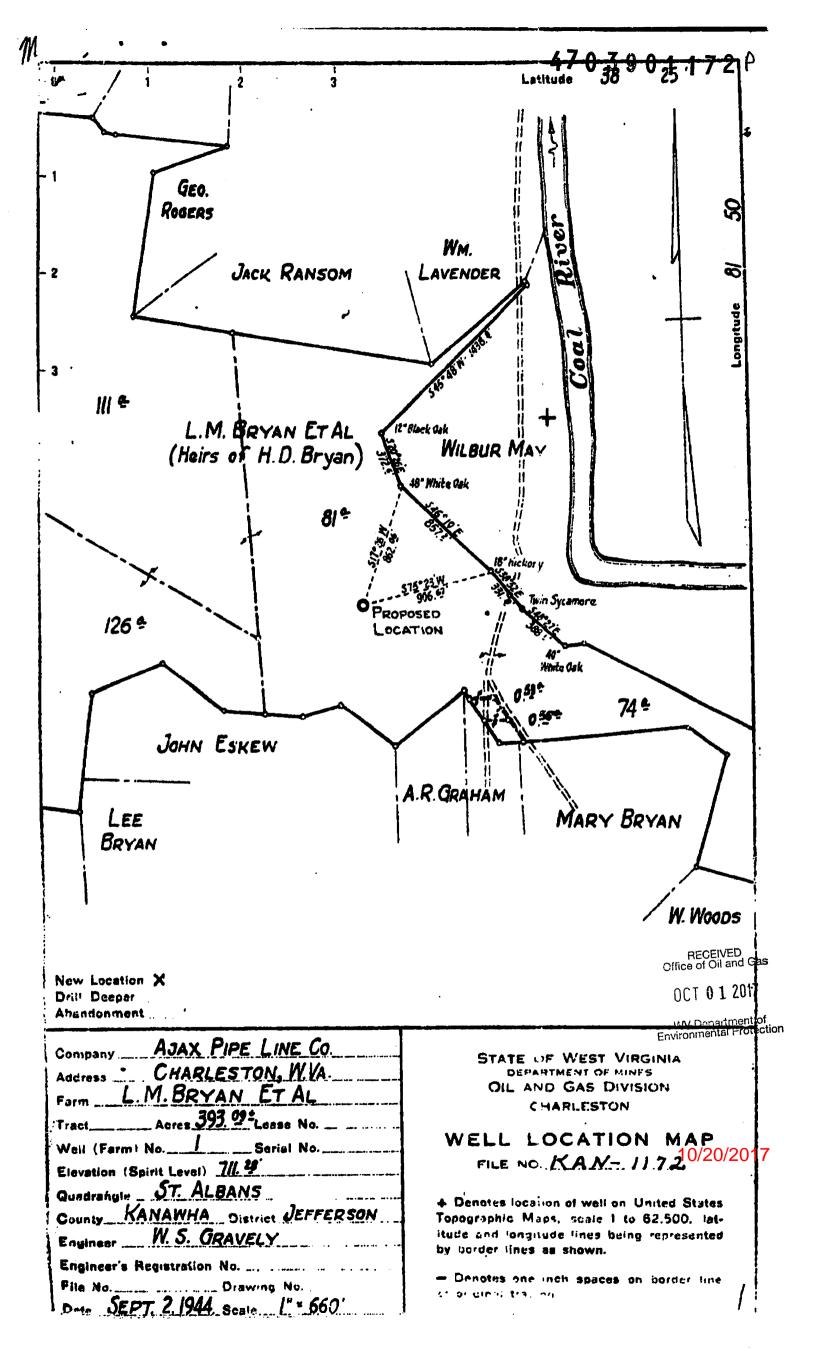
pt Prins



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

#### **WELL RECORD**

Permit No. KAN-1172 Oil or Gas Well (EIED) Company Ajax Pipe Line Company Used in Drilling Left in Well 1219 Kanawha Valley Bldg., Charleston, W. Va. Packers L. M. Bryan Acres 393.09 Siza Location (waters) Coal River Well No.....I Elev 711.28 Kind of Packer..... District Jefferson County Kanawha Hook Wall 14" The surface of tract is owned in foo by L.M. Bryan. et al 10.... 14" Size of 6-5/8"x2" Address R. F. D. #1. St. Albans, W VK... 459'10" 313'9" Same 2109' Mineral rights are owned by ..... 21091 Depth set 2645 1 5 8/16... .....Address Drilling commenced November 14.1944 Perf. top..... Drilling completed March 7, 1945 3751' 3751' Perf. bottom.... To 3746' Date Shot March 7 From 3540' Linera Used. Perf. top..... With 1400# Gelatin Perf. bottom..... Open Flow 44 /10ths Water in..... ..Inch ..... /10ths Merc. in..... Inch CASING CEMENTED SIZE ......Cn. Ft. Rock Pressure .....1bs COAL WAS ENCOUNTERED AT.....FEET.....INCHES .....bbls., 1st 24 hrs. Fresh water.... .feet... ...**\_f**eet ...FEET. INCHES FEET INCHES Salt water .... feet Tast INCHES..... FEET.... ....INCHES Hard or Soft Oil Mass or Water Formation Color Depth Found Top Bottom Remarka Soil 0 9 Red Mud 9 21 Blue Slate 21 90 Sand 90 112 Slate 112 350 Sand 350 425 White Mud 325 338 Blue Mud 338 420 Sand 420 448 Slate 448 475 Sand 475 542 Blue Slate 542 620 White Slate 620 648 Sand 648 800 Black Slate 800 844 Salt Sand 844 1402 Slate 1402 1407 Little Lime 1407 1439 Pencil Cave 1439 1443 Big Lime 1443 1600 Engine Sand 1600 1670 RECEIVED Office of Oil and Gas Slate & Shells 1670 2092 Brown Shale 2092 2110 Berea Sand 2110 2131 OCT 0 1 2017 Slate & Shells 2131 3300 Brown Shale **53**00 3330 WV Department of nvironmental Protection Gray Slate 3330 3555 Brown Shale 3555 3734 White Slate 3734 3751 Total Depth 3751 /10/20/2017





WW-4A Revised 6-07

1) Date:				
2) Operator's Well Numb	oer			
3) API Well No.: 47 -	39	-	01172	

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

4) Surface Ov	vner(s) to be served:	5)	(a) Coal Operator		REGEIVED Office of Oil and Gas
(a) Name	Donald C. Bryan	/	Name		
Address	5025 Kelly Creek Rd.		Address		OCT 0 1 2017
	Charleston, WV 25312	/			
(b) Name	Bryan David Curtis BC	YAM/	(b) Coal Owner	r(s) with Declaration	WV Department of
Address	P.O. Box 2232		Name		Environmental Protection
	Saint Albans, WV 25177		Address		
(c) Name			Name _		
Address	-		Address		
6) Inspector	Terry Urban		(c) Coal Lessee	with Declaration	
Address	P.O. Box 1207		Name	With Bookeration	
nuuress	Clendenin, WV 25405		Address		
Telephone	304-549-5915				
retephone			<del></del>		
Take noti accompai Protection the Appli	you are not required to take an ice that under Chapter 22-6 of mying documents for a permit to make the with respect to the well at the	the West Virginia Co to plug and abandon a ne location described n mailed by registere	ode, the undersigned well oper a well with the Chief of the Of on the attached Application a ed or certified mail or deliver	ator proposes to file or has filed to fice of Oil and Gas, West Virginiand depicted on the attached Formed by hand to the person(s) name	his Notice and Application and a Department of Environmental WW-6. Copies of this Notice,
	OFFICIAL SEAL TATE OF WEST VIRGINIA	Well Operato By: Its: Address	Shale Gas Production, LL  J. Scriff F (2)  Managing Member  929 Charleston Road  Spencer, WV 25276	shwoter	200
My Com	NOTARY PUBLIC David N. Brannon HC 75 Box 410 Chloe, WV 25235 mission Expires December 10, 2017	Telephone	304-927-5228  day of Septem	ber 2012	
Havre	d sworn before me the	n	1000	Notary Public	_
My Commission	on Expires <u>Alecen</u>	bu 10, 20	//		
Oil and Cas Dui	waay 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.

WW-9 (5/16)

API Number	47 - 39	_ 01172
Operator's W	ell No	L.M. Bryan

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

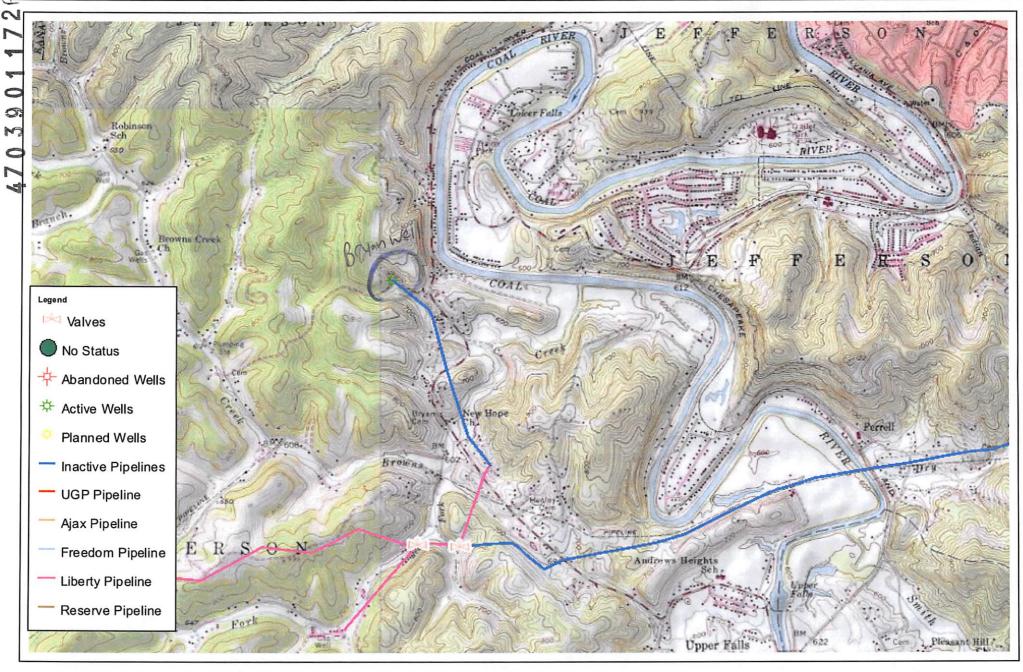
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Shale Gas Production, LLC OP Code
Watershed (HUC 10) Coal River  Quadrangle St. Albans  Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No V
Will a pit be used? Yes No
If so, please describe anticipated pit waste:
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP)  Underground Injection (UIC Permit Number)
Reuse (at API Number)
Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain
Will closed loop system be used? If so, describe: N/A
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium?
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etcN/A
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?
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 o btaining 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) J. Scott Freshwater  RECEIVED Gas  Office of Oil and Gas
Company Official (Typed Name) J. Scott Freshwater  Company Official Title Managing Member
Company Official Title Managing Member
Subscribed and swom before me this 30 day of September , 20 17 WV Department of WV Department of Environmental Protection
Havid M. Brannen Notary Public
My commission expires Accember 10 2017  STATE OF WEST VIRGINIA  STATE OF WEST VIRGINIA
NOTARY PUBLIC 20/2017  David N 100/20/20/2017  HC 75 HO 75 H

Operator's Well No. L.M. Bryan

Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been rovided). 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.	Fertilizer type			
Seed Mixtures	Fertilizer amount 0.25			
Seed Mixtures  Temporary  Seed Type  Ibs/acre  Orchard Grass  25  Ladino Clover  5  Red Top Clover  15  KY 31  40   Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been rovided). 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.  Dan Approved by:  Man Approved by:  Man Approved by:  Marke PHkmpt to pull tub ing it		2	lbs/acre	
Seed Type   lbs/acre   Seed Type   S	Mulch_ Hay	2		
Seed Type   lbs/acre   Seed Type   lbs/acre   Orchard Grass   25   Ladino Clover   5   Red Top Clover   15   KY 31   40    Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been rovided). 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.  Comments:  Operar will make Attempt to pull tubing it			_Tons/acre	
Seed Type   Ibs/acre   Seed Type   Ibs/acre   Orchard Grass   25   Ladino Clover   5   Red Top Clover   15   KY 31   40    Attach: Apps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been rovided). 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.  One was a seed Type   Ibs/acre    KY 31   40    Approved by: A			Seed Mixtures	
Comments:  Optwar will make phenot to Deliver S  Ladino Clover 5  KY 31 40  May 31 40  Ladino Clover 5  KY 31 40  May 31 40  Ladino Clover 5  KY 31 40  Ladi	Tempor	ary	Permane	nt
Red Top Clover 15 KY 31 40  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:  Operate will make phempt to pull tubing c	Seed Type	lbs/acre	Seed Type	lbs/acre
Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been rovided). 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:  Opening at I make phanet to pull tubing to	Orchard Grass	25	Ladino Clover	5
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:  Comments:  Operate will make aftempt to pull tubing i	Red Top Clover	15	KY 31	40
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been rovided). 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:  Operate will make phempt to pull tubing i				
	1 32/2 and area in account a Calca la	ill be land applied, pr	ovide water volume, include dimensions (L, V	ng this info have been (, D) of the pit, and dimensions
	Photocopied section of involved 7 Plan Approved by:  Comments:  Open	rill be land applied, propand application area.  7.5' topographic sheet  will ma	ke Attempt to pull to	/, D) of the pit, and dimensions
	clan Approved by:  Comments:	rill be land applied, propand application area.  7.5' topographic sheet  will ma	ke Attempt to pull to	bing t
RECEIVED Office of Oil and C	Photocopied section of involved 7 Plan Approved by:  Comments:  Open	rill be land applied, propand application area.  7.5' topographic sheet  will ma	ke Attempt to pull to	RECEIVED
RECEIVED Office of Oil and oil	Photocopied section of involved 7 Plan Approved by:  Comments:  Packu 2	ill be land applied, property and application area.  7.5' topographic sheet  Authorized Management of the sheet of the she	ke Attempt to pull te	RECEIVED





TITLE

test

DATE 7/17/2017
DETAILS
Coordinate System: W GS 1984 Web Mercator Auxiliary Sphere
Projection: Mercator Auxiliary Sphere
Datum: WG S 1984

© PSCS

0 295 590 1,180 Yards

1:35,496 W

ath: D \TEMP\e02cd70.96b.au 49d.898 k9 971 c89e 473 00 0, mxd

with date and get add upo 71 c8

WW-7 8-30-06



# West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

RESPONSIBLE PARTY NAME: Shale Gas Production, LLC  COUNTY: Kanawha DISTRICT: Jefferson  QUADRANGLE: St. Albans  SURFACE OWNER: Donald C. Bryan/David Curtis Bryan  ROYALTY OWNER: Bryan Heirs  UTM GPS NORTHING: 4246526.6  UTM GPS EASTING: 423653.2 GPS ELEVATION: 711.28  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.  Land Manna C	API: 47-39-01172	WELL NO.: L.	M. Bryan
RESPONSIBLE PARTY NAME:  COUNTY: Kanawha  DISTRICT: Jefferson  QUADRANGLE: St. Albans  SURFACE OWNER: Donald C. Bryan/David Curtis Bryan  ROYALTY OWNER: Bryan Heirs  UTM GPS NORTHING: 4246526.6  UTM GPS EASTING: 423653.2  GPS ELEVATION: 711.28  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  Real-Time Differential  Altered 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.  Land Manager lo / 2/17	FARM NAME: L.M Bryan		
COUNTY: Kanawha  QUADRANGLE: St. Albans  SURFACE OWNER: Donald C. Bryan/David Curtis Bryan  ROYALTY OWNER: Bryan Heirs  UTM GPS NORTHING: 4246526.6  UTM GPS EASTING: 423653.2 GPS ELEVATION: 711.28  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.	RESPONSIBLE PARTY NAME:	Shale Gas Product	ion, LLC
SURFACE OWNER: Donald C. Bryan/David Curtis Bryan  ROYALTY OWNER: Bryan Heirs  UTM GPS NORTHING: 4246526.6  UTM GPS EASTING: 423653.2  GPS ELEVATION: 711.28  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  Real-Time Differential  Apping 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.	COUNTY: Kanawha	Jeff	erson
UTM GPS NORTHING: 4246526.6  UTM GPS EASTING: 423653.2  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  Real-Time Differential  Real-Time Differential  Real-Time Differential  Real-Time Differential  A. 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.	QUADRANGLE: St. Alban	S	
UTM GPS NORTHING: 4246526.6  UTM GPS EASTING: 423653.2  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  Real-Time Differential  Real-Time Differential  Real-Time Differential  Real-Time Differential  A. 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.	SURFACE OWNER: Donald	C. Bryan/David Curti	s Bryan
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.			
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.	UTM GPS NORTHING: 4246	526.6	
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.	UTM GPS EASTING: 423653	3.2 GPS ELEVATION	<sub>N:</sub> 711.28
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.  Land Manager   lo /2/17	preparing a new well location plat fo above well. The Office of Oil and Ga the following requirements:  1. Datum: NAD 1983, Zone height above mean sea let 2. Accuracy to Datum - 3.0: 3. Data Collection Method:	r a plugging permit or assigned AF is will not accept GPS coordinates: 17 North, Coordinate Units: metered (MSL) – meters.	I number on the that do not meet
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.  Land Manager   lo/2/17	Real-Ti	me 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.  Land Mannger 10/2/17	Mapping Grade GPS: Post	Processed Differential	
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.  Land Mannger 10/2/17	Real	-Time Differential	
Signature Land / langer 10/2/1/	I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and O	data is correct to the best of my kr required by law and the regulation has.	nowledge and
Signature Date	Signature Signature	Land /Vlanger	

RECEIVED
Office of Oil and Gas

OCT 03 2017

WV Department of Environmental Protection