

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

November 13, 2015

#### WELL WORK PERMIT

#### Fracture

This permit, API Well Number: 47-7302554, issued to BOWYER, DAVID, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin Chief

Operator's Well No: NICKOLES 1 Farm Name: NICKOLES, THOMAS W. & JOYC API Well Number: 47-7302554 Permit Type: Fracture Date Issued: 11/13/2015

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

### CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

9 BEFORE AUX LIAND APPLICATION OF TREATED PAT FLUIDS APPROVAL MUST BE GWEN BY THE OFFICE OF OUL \$ CAS (NSPECTOR

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	<u>DEPA</u>	RTMEN		VIRONMENTAL		N, OFFICE O	F OIL AND (	GAS
			<u>V</u>	VELL WORK PE	RMIT APPLIC	CATION		
1) Well (	Operato	or: David	IE. Bowy	/er	308590	Pleasants	Union	Bens Run 7.5'
		······································			Operator ID	County	District	Quadrangle
2) Opera	itor's W	Vell Numi	per: Nicko	les #1		3) Elevation:	1055'	
4) Well T				as X				mil / Hall
	(t	) If Gas:	Produ	uction X / Un	derground Sto	orage		Michael Daff 10 - 19 - 15
				p/ 8				
7) Appro	ximate	fresh wa	iter strata	: Devonian Shales Feet a depths: 48' By Pe : None by Permit 826	Formation at	Proposed Tar Proposed Tota	get Depth: <u>4</u> al Depth: <u>Deve</u>	900' onian Shales
9) Appro	ximate	coal sea	m depth	s: 730' by Permit	826			
10) Appr	oximat	e void de	pths,(co	al, Karst, other):	None			
11) Does	and c	ontain co	oal seam	s tributary to act	tive mine? <u>N</u>	lo		
Frac Benso	n at 150	10'-1800'. I	Ball Town :	nd fracturing meth at 3854'-4080', and	Speechly at 349	96'-3550' using 2	0-40 sand with	20 000 lbs per (1)//
stage and u	ise a 20	Th cross li	nk system	for fluid (H2O). Thi	s well was perfo	rated and acidiz	ed on 6/18/14.	FROM 4716 78 472
791 FRAC	BE.	NSON 4	+ SHAL	ES FROM	4126-4: 1965- W	726 WIT	4 800,000	FROM 4716 JE 472
<i>575 × 77 72</i> 13)	377	<i>FG7</i> 7	<u>C</u> A	SING AND TU	BING PROGR	AM		NR OGEN.
TYPE	<u> </u>	PECIFIC	ATIONS		FOOTAGE	INTERVALS	<u>CEME</u>	<u>NT</u>
		<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	<u>. Ft.)</u>
Conduc	tor	13-3/8"	A-500	48	36	36	CTS	MAG
Fresh W	/ater	7"	J-55	20	800	800	CTS (120 0	ри. Ft.) 10-19-15
Coal								
Intermed	diate							
Product	on	4-1/2"	J-55	9.5		4950	1500 of	Fill
Tubing						:		
Liners								
Packers								-
	Sizes Dept	s: hs Set			······································		<del>_</del> .	

WW-2B1 (5-12)

Well No. Nickoles #1

## West Virginia Department of Environmental Protection Office of Oil and Gas

## NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name	Reliance Labs
Sampling Contractor	Reliance Labs

Well Operator	David E. Bowyer	
Address	12088 Middle Island Rd.	
	Aima, WV 26320	
Telephone	304-758-0672	

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Thomas Nickoles 86 Swetland Rd, Gettysburg, PA 17325-8646 Received

OCT 2 8 2015

Office of Oil and Gas WV Dept. of Environmental Protection



7302554F MAG

WW-2A (Rev. 6-14)

1). Date: <u>7/3</u>	30/15		_
2.) Operator's We	ell Number	Nickol	es #1
	State	County	Permit
3.) API Well No.:	47-	73	- 02554

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Ov	wner(s) to be served:		5) (a) Coal Op	erator
(a) Name	Thomas Nickole	s w	Name	None
Address	86 Swetland Rd.		Address	
	Gettvsburg. PA			
(b) Name			(b) Coal O	wner(s) with Declaration
Address			Name	None
	( <del></del>		Address	
	3 <del></del>		_	
(c) Name			Name	
Address			Address	
6) Inspector	Mike Goff		(c) Coal Le	essee with Declaration
Address	P.O. Box 134		Name	None
	Pullman, WV 264	421	Address	
Telephone	304-549-9823			
	TO THE F	<b>PERSONS NAI</b>	MED ABOVE T	AKE NOTICE THAT:
Included is t	the lease or leases or o	other continuing	contract or contra	acts by which I hold the right to extract oil and gas
OR				
				n 8(d) of the Code of West Virginia (see page 2)
				inia Code I have served copies of this notice and
application, a lo				ugh on the above named parties by:
-		e (Affidavit attac		-0
			al receipt attache	a)
I hours		ice of Publicatio		I agree to the terms and conditions of any permit
issued under thi		Taplet 22-0 and	155 CSR 4, anu	agree to the terms and conditions of any permit
		hat I have perso	onally examined	and am familiar with the information submitted on
				ry of those individuals immediately responsible for
obtaining the inf	ormation, I believe that	t the information	is true, accurate	and complete.
	vare that there are sign	ificant penalties	for submitting fa	lse information, including the possibility of fine and
imprisonment.				111
EC	OFFICIAL SEAL		David E. Bov	
Notary Pub	lic, State Of West Virginia		David E. Boy	
	UE E JOHNSON		Designated A	
Pen	nsboro, WV 26415	Address:	12088 Middle	
M. Commis	sion Expires April 4, 2022	Talaabaaaa	Alma, WV 26	OOT 0 a
			<u>304-758-067</u>	
Cubeeribed and	awara hafara ma thia		Dbowver692	
Subscribed and	sworn before me this		Outobe	Office of Oil and Gas
$\sim$	ue 2 Johns			Notary Public WV Dept. of Environmental Protecti
My Commission	Expires	4-4-2	22	

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  $\frac{11}{12}$ 

**Oil and Gas Privacy Notice** 

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WW-2A Surface Waiver

#### SURFACE OWNER WAIVER

County

Pleasants

Operator Operator well number

David E. Bowyers

#### umber Nickoles #1

#### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

#### NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure a dequate d elivery time or to ar range s pecial expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

- The Chief has the power to deny or condition a well work permit based on comments on the following grounds:
- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

#### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_\_\_ including a work order on F orm WW2-B, a s urvey plat, and a s oil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

#### FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Thomas w. Nickoles	Date 9/15/15	Company Name	Received	
Signature	/ /	By		
THOMAS W. NICKOLES		Its	OCT 2 8 2015	Date
Print Name			Office of Oil and Gas Signature: of Environmental Protection	Date

## INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Thomas & Joyce Nickoles	Rockford Energy LLC	15%	286/619
Rockford Energy LLC	D&J Investments LLC		
D&J Investments LLC	Pleasants Energy Development 2013 Program		
Pleasants Energy Development 2013 Program	David Bowyer		Copy Included (1)

## Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The per mit app licant for the proposed well work add ressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate authority before the affected activity is initiated.

Well Operator: By:Its:

David E. Bowyer	OCT 2 8 2015
Designated Agent	

Office of Oil and Gas WV Dept. of Environmental Protection 11/13/2015

**7302554** Sue E Morgan PLEASANTS County 03:52:17 PM Instrument No 618168 Date Recorded 09/08/2015 Document Type ASSIGNMENT Pages Recorded 2 Book-Page 306-45 Recording Fee \$5.00 Additional \$6.00

#### PARTIAL ASSIGNMENT OF OIL AND GAS INTEREST

KNOW ALL MEN BY THESE PRESENTS, that this assignment is made and entered into as of the 3rd day of Sept., 2015, by and between Pleasants Energy Development 2013 Drilling Program LP, a West Virginia Limited Liability Partnership, party of the first part, hereinafter referred to as "Assignor" and between David Bowyer, a Sole Proprietor, party of the second part, hereinafter referred to as "Assignee".

WHEREAS, Assignor represents that it is the present owner of certain oil and gas development rights and leasehold estates pursuant to a certain oil and gas lease dated June 5, 2012 from Thomas W. Nickoles and Joyce A. Nickoles, husband and wife, consisting of +/- One Hundred Fifteen (115) acres more or less, situated in Union District, Pleasants County, described in a Memorandum of Lease of record in the Office of the Clerk for the County Commission of Pleasants County, West Virginia in Deed Book 286 at Page 619.

WHEREAS, David Bowyer has agreed to take over operation of one well on said parcel under the terms and conditions of a Drilling and Completion Agreement with D&J Investments, LLC, general partner of Pleasants Energy Development 2013 Drilling Program LP.

WITNESSETH, that for good and valuable consideration, the receipt of which hereby is acknowledged, and in consideration of the covenants and conditions hereinafter to be kept and performed, Assignor does hereby transfer, sells, grant, convey and assigns to Assignee the borehole rights only to complete one well to a depth of the deepest completed formation no deeper than 300 feet above the Marcellus Shale formation.

This assignment is made subject to the following reservations and excepts:

- (a) Assignor reserves all rights and titles to the lease and only assigns to Assignee one well to a depth of the deepest completed formation no deeper than 300 feet above the Marcellus Shale formation.
- (b) Assignor covenants with Assignee, its heirs, successors, assigns, that the Assignor is the lawful owner of and has good title to the interest and properties, both real and personal, herein assigned, free and clear from any liens or encumbrance.
- (c) Once the well has been completed the Assignee shall execute an assignment returning all interest herein conveyed unto the Assignor.
- (d) If Assignee does not complete a producing oil and/or gas well by 6/01/16 then this Assignment shall be null and void and of no effect.

OCT 2 8 2015

This assignment is made subject to all matters of record in the office of the Clerk of Pleasants County Commission.

Assignor warrants that it has full power and authority to enter into this assignment and the execution, delivery and consummation of this assignment has been duly and validly authorized by all necessary action.

This assignment shall be binding upon, and inure to the benefit of Assignor, Assignee, and their respective heirs, personal representatives, devisees, successors and assigns.

WITNESSETH the following signature:

in

leasants Energy Development 2013 Drilling Program LP by D&J Investments LLC, its General Partner By Jackson L. Smith, Member

State of West Virginia County of Tyler, TO-WIT

The foregoing instrument was acknowledged before me this 3rd day of Sept, 2015 by Jackson L. Smith, Member of D&J Investments, LLC as General Partner of Pleasants Energy Development 2013 Drilling Program LP.

My commission expires Sectantus 11. 2018



This Instrument was prepared by and return to: **D&J Investments LLC** 12088 Middle Island Rd. Alma, WV 26320

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OCT 2 8 2015

Office of Oil and Gas WV Dept. of Environmental Protection

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W	W-9	
(2)	(15)	

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WW-9 (2/15)		API Number 47 - 73	- 02554	
(24 10)		Operator's Well		
	DEPARTMENT OF ENVIR	EST VIRGINIA ONMENTAL PROTECTION OIL AND GAS		
	FLUIDS/ CUTTINGS DISPO	SAL & RECLAMATION PLAN	I	
Operator Name David E. Bowye	r	OP Code _30	1590	
Watershed (HUC 10) Big Run	· · · · · · · · · · · · · · · · · · ·		97/	
Do you anticipate using more t Will a pit be used? Yes $\checkmark$	than 5,000 bbls of water to complet	e the proposed well work? Ye:	s No V	
If so, please describe	anticipated pit waste: Frac Flowt	back and Gel System		
Will a synthetic liner	be used in the pit? Yes	No If so, what ml.? 2	10.19, 10.19,	۱ΔC
Proposed Disposal M	ethod For Treated Pit Wastes:		10/19,	/15
Und Ren Off	d Application lerground Injection (UIC Permit N se (at API Number		)	
-If oil based, what typ	r this well (vertical and horizontal) e? Synthetic, petroleum, etc. <u>NA</u>			
Additives to be used in drilling	· · · · · · · · · · · · · · · · · · ·			
Drill cuttings disposal method?	Leave in pit, landfill, removed of	fsite, etc. N/A	·	
-If left in pit and plan	to solidify what medium will be us	ed? (cement, lime, sawdust)		
-Landfill or offsite nar	ne/permit number?	· · · · · · · · · · · · · · · · · · ·		
	notice to the Office of Oil and Gas ty. The notice shall be provided wi			
on August 1, 2005, by the Offic provisions of the permit are en law or regulation can lead to en I certify under penalty application form and all attac obtaining the information, I be	and and agree to the terms and con the of Oil and Gas of the West Virgi forceable by law. Violations of an forcement action. y of law that I have personally ex- hments thereto and that, based of elieve that the information is true formation, including the possibility	nia Department of Environment ny term or condition of the gene xamined and am familiar with on my inquiry of those individ e, accurate, and complete. I an y of fine or imprisonment.	al Protection. I understand tha eral permit and/or other applic the information submitted on luals immediately responsible n aware that there are signifi	t the able this for icant
Company Official Signature	fifered Dery		OFFICIAL SEAL	
Company Official (Typed Nam	Bavid E. Bowver	Ē	SUE E JOHNSON	ndivia

Company Official Signature	
Company Official (Typed Name) Bavid E. Bowyer	SUE E JOHNSON
Company Official Title_ Designated Agent	411 Fream Street Pennsboro, WV 26415 Mr Commission Expires April 4, 2022

Subscribed and sworn before me this $25$	day of Outober	, 20 <u>_15</u>
Jue & John	sn	Notary Public
My commission expires <u>4</u> -	4-22	· .

7302554 F

Form WW-9

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## Operator's Well No. NICKOLES #1

1	EGEND
Property Boundary &&	Diversion Learner LIIIIIII
Road $= = = = = = = = = = = = = = = = = = =$	Spring O-
Existing Fence	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches @
Stream	Waterway $\longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow$
Open Ditch >	Cross Drain
Rock Second	Artificial Filter Strip
North N	Pit: cut walls
Buildings ma	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed	Prevegetation nH
Lime <u>3</u> Tons/acre or to correct to pH _	6.5
Fertilizer (10-20-20 or equivalent) <u>1/3 TON</u> lbs/ac	ere (500 lbs minimum)
Mulch HAY 2 Tons/acr	e e e e e e e e e e e e e e e e e e e
1013/BOI	<b>.</b>
Seed N	Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
<u>KY-31</u> 40	ORCHARD GRASS 15
ALSIKE CLOVER 5	ALSIKE CLOVER 5
ANNUAL RYE 15	
Attach:	
Drawing(s) of road, location, pit and proposed area for land application	ation.
Photocopied section of involved 7.5' topographic sheet.	
M. I. J. 4. 11	
Plan Approved by: Michael Soff	· · · · · · · · · · · · · · · · · · ·
Comments: <u>Presecol &amp; Mulch</u> any d <u>WVDEP regulations</u> , Maintain	istuched areas Der
WINSP secolations Mill	Nulla Series and Area
wy Szi jegutarines, itantan 2	+ upgrade Emis as necessary.
Title: 0:1 & Gas Inspector	Date: 10 - 19 - 15
Field Reviewed? () Yes (	





Operator:	BOWYER, DAVIE	)	
API:	7302554 🗲		
WELL No:	NICKOLES 1	3	
Reviewed b	: Opu	Date:	11/12/2015

## CHECKLIST FOR FILING A PERMIT

Fracture

CK# 9573 \$650°

WW-2B

Inspector signature on WW-2B

- Completion / Well Records of Previous Work
- WW-2A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- 🖌 Surface Owner Waiver
- Coal Owner / Lessee /Operator Waiver
- ✓ WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage
- WW-9 (Page 1 & 2) (Notarized)
- More than 5,000 bbls
- Inspector Signature on WW-9
- Reclamation plan
- Topographic Map of location of well
- Mylar Plat (Signed Sealed) (Surface owner on plat matches WW-2A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$650.00 check (\$550.00 if no pit) NOD sent/Phone call 11/09/15 Sue Johnson 11:20AM Received

and the

- Mine Data
- Addendum
- Professional Engineer/Company has COA

David E. Bowyer 12088 Middle Island Road Alma, WV 26320-7211 (304)758-0672 DBowyer6928@gmail.com

October 25, 2015

WV Department of Oil and Gas Attn: Jeffrey McLaughlin 601 57<sup>th</sup> Street SE Charleston, WV 25304

Dear Mr McLaughlin:

Please find attached the permit package for fracking the Nickoles #1 - API 47-73-02554. The original package has been sent by mail, you should receive by tomorrow. The well was drilled in 2014 and was not fracked at that time because we did not have an outlet for the gas. We now have a gas contract to sell the gas and would like to have the frack scheduled as soon as possible.

Thank you for your help in this matter. If you have any questions please give me a call.

Sincerely,

Johnson

Sue E. Johnson For David E. Bowyer

Enclosures



7302554FCk# Traveler fee 95000 9544

OCT 2 8 2015

Office of Oil and Gas WV Dept. of Environmental Protection

WW - 2B (Rev. 8/10)



## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator:	David E. Bowyer	308590	Pleasants	Union	Bens Run 7.5'
-Ps	· · · · · · · · · · · · · · · · · · ·	Operator ID	County	District	Quadrangle
2) Operator's Well	Number: Nickoles #1		3) Elevation:	1055'	
4) Well Type: (a) C	Dil_X or Gas_X				02:11
(b) If	Gas: Production X / Under	ground Stor	age		Michael
	Deep/ Sha	llow_X			10 - 19 -
<ol> <li>6) Proposed Total</li> <li>7) Approximate free</li> </ol>	et Formation(s): Devonian Shales Depth: 5000' Feet Four sh water strata depths: 48' By Permit It water depths: None by Permit 826	rmation at F	Proposed Tar proposed Tota	get Depth: <u>_</u> Il Depth: <u></u>	1900' ronian Shales
	al seam depths: 730' by Permit 826	3			-
10) Approximate v	oid depths,(coal, Karst, other): <u>No</u>	one			
11) Does land con	tain coal seams tributary to active	mine? N	0		
12) Describe propos	sed well work and fracturing method	s in detail (a	tach additiona	I sheets if ne	eded)

Frac Benson at 1500'-1800', Ball Town at 3854'-4080', and Speechly at 3496'-3550' using 20-40 sand with 20,000 lbs. per stage and use a 20 lb cross link system for fluid (H2O). This well was perforated and acidized on 6/18/14.

13)		CA	SING AND TU		RAM		
TYPE	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	<u>CEMENT</u>	
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)	
Conductor	13-3/8"	A-500	48	36	36	CTS	MAG
Fresh Water	7"	J-55	20	800	800	CTS (120 Cu. Ft.)	MAG 10-19-13
Coal							
Intermediate							
Production	4-1/2"	J-55	9.5		4950	1500 of Fill	
Tubing				Berne and Decision	leceive	¢d	
Liners							
					OCT 2 8 201	5	

Packers: Kind:

Sizes:

Depths Set

Office of Oll and Gas WV Dept. of Environmental Protection

11/13/2015

7302554 F

W W-9		00551
(2/15)	API Number 47 - 73 - 0 Operator's Well No. Nie	02554
DEPARTMENT OF ENVIR	EST VIRGINIA ONMENTAL PROTECTION	
OFFICE OF	OIL AND GAS	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
FLUIDS/ CUTTINGS DISPOS	SAL & RECLAMATION PLAN	
Operator Name David E. Bowyer	OP Code 308590	******
Watershed (HUC 10) Big Run	_ Quadrangle _ Bens Run 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete Will a pit be used? Yes <u>Ves</u> No <u>No</u>	e the proposed well work? Yes	No No
If so, please describe anticipated pit waste: Frac Flowb	ack and Gel System	
	No If so, what ml.?_ 20	MAG
Proposed Disposal Method For Treated Pit Wastes:		10/19/13
<ul> <li>Land Application</li> <li>Underground Injection (UIC Permit N Reuse (at API Number</li> <li>Off Site Disposal (Supply form WW-9</li> </ul>		)
	for disposal location)	
Will closed loop system be used? If so, describe: <u>No</u> Drilling medium anticipated for this well (vertical and horizontal)		Drilling (Stimulation)
-If oil based, what type? Synthetic, petroleum, etc. N/A		Ronoivad
Additives to be used in drilling medium?N/A		LIECEIVEU
Drill cuttings disposal method? Leave in pit, landfill, removed of	fsite, etc. N/A	00T 2 0 00F
-If left in pit and plan to solidify what medium will be use	ed? (cement, lime, sawdust)	OCT 2 8 2015
-Landfill or offsite name/permit number?		
	167	Office of Oil and Gas
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	of any load of drill cuttings or association and the per	mittee shall also disclose
I certify that I understand and agree to the terms and com on August 1, 2005, by the Office of Oil and Gas of the West Virgi provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action. I certify under penalty of law that I have personally e application form and all attachments thereto and that, based of obtaining the information, I believe that the information is true penalties for submitting false information, including the possibility	inia Department of Environmental Pro- ny term or condition of the general p xamined and am familiar with the in on my inquiry of those individuals e, accurate, and complete. I am aw y of fine or imprisonment.	otection. I understand that the bermit and/or other applicable nformation submitted on this immediately responsible for

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Company Official Signature	
Company Official (Typed Name) David E. Bowyer	Notary Public, State Of West Virginia SUE E JOHNSON
Company Official Title Designated Agent	411 Fream Street Pennsboro, WV 26415
	My Commission Expires April 4, 2022

Subscribed and sworn before me this_	25	day of	Outober	, 20 15
Jue E 9	hns	n		Notary Public
My commission expires	4-4	-22	8	

Form WW-9			
		Derator's We	ll No. NICKOLES #1
Property Boundary 🗠		Diversion Leannes 1111	
Road $=$ $=$ $=$ $=$ $=$	= = = = = = =	Spring	14
Existing Fence — $\chi$ -	_ × _ × _	Wet Spot	
Planned Fence / _		Drain Pipe with size in inches	
	ч., , , , , , , , , , , , , , , , , , ,	Waterway 👄 🥌	
ecir) of	· ··· · · ··· · ··· · ··· · ··· · ··· · ·	Cross Drain 71111	
Rock 55585	- All	Artificial Filter Strip	XXXXXXXXXXXXXX
North N		Pit: cut walls	Jule
Buildings		Pit: compacted fill walls	TITE
Drill site		Area for Land Application of Pit	Waste
		Ger	
Proposed Revegetation Treatr	nent: Acres Disturbed	Prevegetation pH	
	Tons/acre or to correct to pH	6 F	RECEIVE
		- 0	FFICE OF OIL AND GAS
Fertilizer (10-20-20 d	or equivalent) <u>1/3 TON</u> lbs/	/acre (500 lbs minimum)	
MulchHAY	2Tons/a	cre	OCT & 2UID
	Seed	Mixtures	qpw
n e Se			23
Seed Type	a I lbs/acre	Area I Seed Type	II lbs/acre
КҮ-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5		1403
		ALSIKE CLOVER	5
ANNUAL RYE	15		
Been and the second			
Attach:			
Drawing(s) of road, location,p	it and proposed area for land appli	ication.	
Photocopied section of involve	ed 7.5' topographic sheet.	4	
M.	. 1 9 11.		
Plan Approved by: 1 Ucl	noe som	······	
Comments: Preseed	4. Mulch any	disturbed area	s per
WVDEP requ	lations, Maintain	4 upgrade E-n-s	as necessary.
Title: O!l & Gas	Inspector	Date: 10 - 19 - 15	
	✓)Yes (		1
			11/13/201