

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

Monday, March 20, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

MOUNTAINEER KEYSTONE, LLC (A) 6031 WALLACE RD EXT, STE 300

WEXFORD, PA 15090

Re: Permit approval for 215 47-091-01331-00-00

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: 215 Farm Name: MACDONALD, CHARLES E. U.S. WELL NUMBER:47-091-01331-00-00 Horizontal 6A / New Drill Date Issued: 3/20/2017

Promoting a healthy environment.

API Number: _____91-01331

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. 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 § 22-6A-5a (12), 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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: <u>91-01331</u>	

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, 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.

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

1) Well Operator	r: Mountaine	er Keystone, LL	494501227	Taylor	Fetterma	Gladesville 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's W	ell Number: 21	5	Well Pa	ad Name: UN	В	
3) Farm Name/S	urface Owner:	Charles E. Mac	Donald Public Ro	ad Access: R	t. 119	
4) Elevation, cur	rent ground:	1880.92' E	levation, proposed	l post-constru	ction: 1878.	25'
5) Well Type (Oil	Unc	lerground Sto	rage	
	Other					
(•	allow <u>x</u>	Deep			C
O Pairie Pala		rizontal X				
6) Existing Pad:				ette o da		
), Depth(s), Antic 7958' (Bottom), 81	cipated Thickness I', 0.5psi/ft	and Expected	Pressure(s):	1
8) Proposed Tota	l Vertical Dept	h: 7958'				
9) Formation at 7	Total Vertical D	Depth: Marcellus	s Shale			
10) Proposed Tot	al Measured D	epth: 14,263'				
11) Proposed Ho	rizontal Leg Le	ength: 5,709'				
12) Approximate	Fresh Water S	trata Depths:	350'			
 13) Method to De 14) Approximate 			Offsetting wells reported we	iter depths (091-001	13, 091-00776, 091-0	00958, 091-00963, 091-00970)
15) Approximate	Coal Seam De	pths: Bakerstown 30', U	Jpper Freeport 218', Lower Fre	eport 290', Upper Kitta	nning 345', Middle Kitu	anning 388', Lower Kittanning 438
16) Approximate	Depth to Possi	ble Void (coal m	ine, karst, other):	None known	1	
17) Does Propose directly overlying		a contain coal sea an active mine?	ms Yes	N	to x	ENED HONA GOS
(a) If Yes, provi	ide Mine Info:	Name:			MCO RE	7.
		Depth:			OF O	IVED
		Seam:		Enin	MAR	and
		Owner:		PONO	20 20	CO3
				ne	MAR Deportment Profesting	>
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					Ch	0
						Page 1 of 3
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91-0133/

Well	Pysell 1HM	Pysell 2HM	Pysell 3HM
From	12/1/2015	12/1/2015	12/1/2015
То	3/9/2017	3/9/2017	3/9/2017
Max P(Cas) (psi)	3100	2900	2800
Max TVD	7,689	7,710	7,707
Calculated PSI/ft.	0.40	0.38	0.36

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APINO. 47-91 01331

OPERATOR WELL NO. 215 Well Pad Name: UNB

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	24"	New	H-40	94#	80'	80'	CTS
Fresh Water	13.375"	New	J-55	54.5#	500'	500'	CTS
Coal	1.00						
Intermediate	9.625"	New	J-55	40#	1500'	1500'	CTS
Production	5.5"	New	P-110	20#	14,263'	14,263'	TOC @ 1,350' MD
Tubing							
Liners							

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	1			1			
TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	24"	36"			0	None	None
Fresh Water	13.375"	17.5"	0.38"	2730	0	Class A, 3% CaC12	1.20
Coal							
Intermediate	9.625"	12.25"	0.395"	3950 psi	0	Class A, 2% CaC12	1.29
Production	5.5"	8.5-8.75	0.361"	12,640 psi	9500	Type 1	1.64/1.32
Tubing					5000		
Liners		-			N/A		

PACKERS

Kind:	
Sizes:	
Depths Set:	PEopu
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Page 2 of 3 03/24/2017 WW-6B (10/14) API NO. 47-91-0133 OPERATOR WELL NO. 215 Well Pad Name: UNB

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and grout cement back to surface. The conductor rig will move out and the drilling rig will move in and rig up. The drilling rig will then spud a 17 ½" hole and drill to fresh water casing (Surface) to the programmed depth, Run 13- 3/8" casing and cement to surface. The rig will continue drilling a 12- ¼" intermediate hole to the programmed depth, run 9-5/8" casing and cement to surface. The rig with then continue to drill a 8- ¾" hole to a designed KOP and then start drilling the curve and lateral section to the programmed total measured depth, run 5 ½" casing and cement according to the program.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The well will be completed using a plug and perforation method and stimulated with a slickwater and sand slurry. The anticipated maximum rate will be 90 bpm and the maximum pressure will be 9,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.3

22) Area to be disturbed for well pad only, less access road (acres): 5.9

23) Describe centralizer placement for each casing string:

20"- No centralizers 13 3/8" – one bow spring centralizer on every other joint 9 5/8" – one bow spring centralizer every third joint from TD to surface $5 \frac{1}{2}"$ – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,600'; there will be no centralizers from 1,600' to surface.

24) Describe all cement additives associated with each cement type:

24" will be grouted from surface. The 13-3/8" casing will be cemented to surface with Class A cement and no greater than 3% CaCl (calcium chloride). The 9-5/8" casing will be cemented to surface with Type 1 cement, & no greater than 3% calcium chloride. The 5-1/2" production string will be cemented back to 1,350' (+/- 200' above the casing shoe for the 9-5/8") with Type 1 or Class A cement retarder (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly a gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right-angle" set) during the plastic phase of the cement set-up.

25) Proposed borehole conditioning procedures:

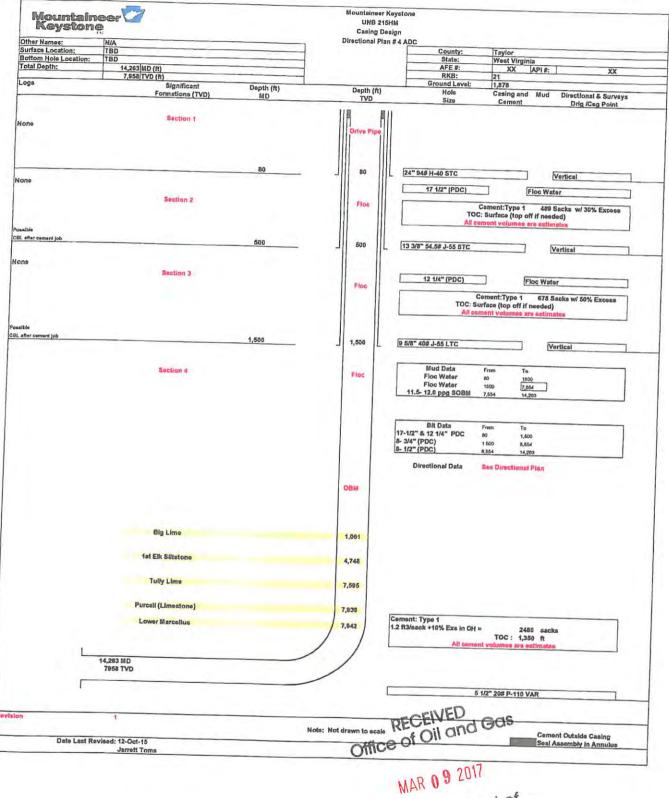
Top holes will be drilled with fresh water to KOP. At KOP, the wellbore will be loaded with synthetic oil based mud, barite-weighted mud system with such properties as to build a filter-cake on the face to the bore-hole. This will provide lubricity as well as stabilizing the well bore. We will begin rotating the drill string and mud will be circulated upon reaching TD until no further cuttings are observed coming across the shaker screens. Once clean mud is circulated back to surface, we will pull three stands of drill pipe, load the hole, pull three stands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are notices, we will re-run the previous stand of pipe pulled across and circulate 2X bottoms up while watching the shakers for signs of cuttings. Once at the base of the curve, the stands will be continuously rotated while pumping 2X bottoms up. We will pull three stands and fill the hole up will certified section of the well.

*Note: Attach additional sheets as needed.

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WV Department of Environmental Protection



Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near Mountaineer Keystone hydraulic fracturing in Taylor County, WV prior to hydraulic fracturing at the following MK wells on the UNB 215 Pad.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 8,000'TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Haverty formation (approximately 5,200' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with best management practices and emergency action plans for this site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the Division of Oil and Gas is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Operators.

MK, using available data (WV Geological Survey, WVDEP Website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in Attachment A.

Upon approval of this plan, MK will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in Attachment B. The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to MK and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions.
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure.
- Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
- 4. Notify the OOG and MK if any changes in water, gas production, pressure or other Gas anomalies are identified.

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2. Reporting

MK will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately after any event of any noted abnormalities.

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Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
				20 42520	70.041143	4381	Little Lime, Big Lime, Keener, Big Injun, Weir, Gantz, Fifty- foot, Thirty Foot, Fourth, Fifth, Bayard, Elizabeth, Speechley,	NA
Charles E MacDonald 1	091-00963	Alliance Petroleum Corporation	Active	39.43638	-79.941142	4381	Balltown, Bradford, Riley, Benson	NA
Weightman J-771	091-00314	Alliance Petroleum Corporation	Vertical-Unknown	39.440493	-79.941709	5995	Greenbrier Group, Big Lime, Big Injun, Weir, Fourth, Fifth, Riley, Benson, Elk, Haverty	NA
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Area of Review Report - UNB Pad, 215 Lateral, Taylor County, WV

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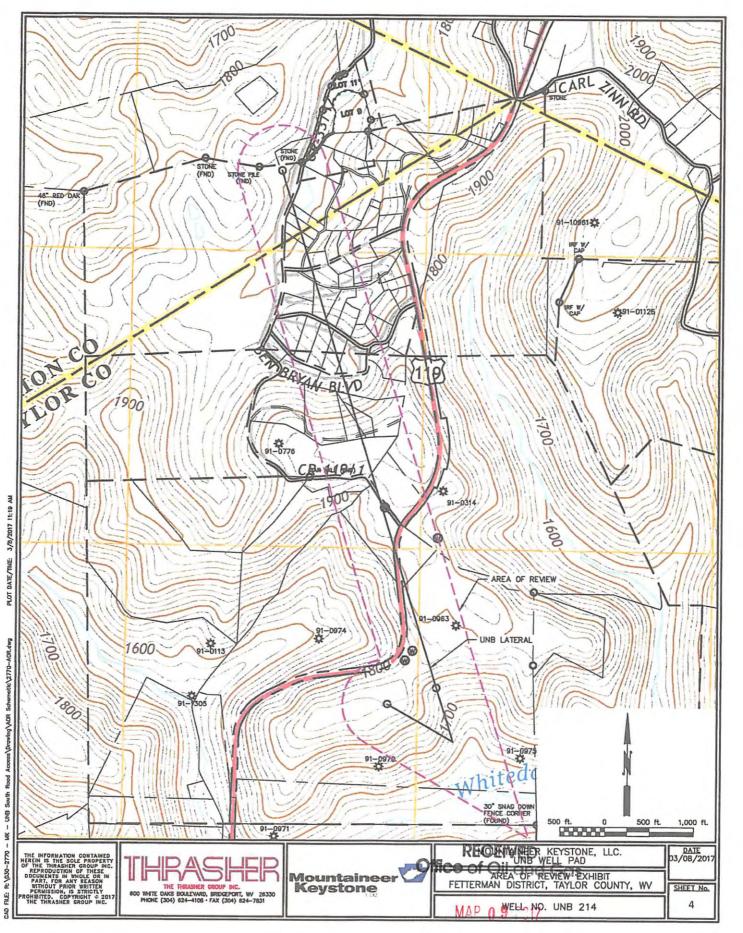
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L Weightman J-771	091-00314	Alliance Petroleum Corporation	Vertical-Unknown	39.440493	-79.941709	5995	Greenbrier Group, Big Lime, Big Injun, Weir, Fourth, Fifth, Riley, Benson, Elk, Haverty	NA
						1.		

Area of Review Report - UNB Pad, 215 Lateral, Taylor County, WV

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03/24/2017

WW-9	
(2/15) API Number 47 - 091	01331
Operator's Well No	LINB 215
BIALE OF WENT VIDCINIA	
DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS	
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name Mountaineer Keystone, LLC OP Code 49450	1007
Watershed (HUC 10) White Day Creek Quadrangle Gladesville 7.5	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	
Will a pit be used? Yes V No	No No
If so, please describe anticipated pit waste: produced water	
Will a comparise lines to the second se	
Proposed Disposal Method For Treated Pit Wastes:	n
Land Application	
Underground Injection (UIC Permit Number	
Reuse (at API Number various	
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	
Other (rexplain	
Will closed loop system he used? If an describe Yes the describe and an and a second system in the second system is a second system in the second system in the second system is a second system in the second system in th	
Will closed loop system be used? If so, describe: Yes, the closed loop system will contain all of the drilling medium and efficiency of the drilling medium and efficiency of the system and efficience and effici	s on location to than be taken to landit.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	costs disability to , homeowers , approximate and how one are a
-If oil based, what type? Synthetic, petroleum, etc. synthetic	
Additives to be used in drilling medium? Bentonite, Soap and Polymer sticks, Soda A	Ash, Sodium Carbonate, Defoamer, Base Oil,
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) n/a	
-Landfill or offsite name/permit number? Advanced Disposal Services. Chestnut Valley Landfill	
	and the second se
West Virginia solid waste facility. The notice of Oil and Gas of any load of drill cuttings or associ	ated waste rejected at any
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associ West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the per- where it was properly disposed.	mittee shall also disclose
where it was properly disposed.	mittee shall also disclose
where it was properly disposed.	mittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER P on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Pro provisions of the permit are enforceable by law. Violations of the Server Serv	OLLUTION PERMIT issued
I certify that I understand and agree to the terms and conditions of the GENERAL WATER P on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Pro provisions of the permit are enforceable by law. Violations of any term or condition of the general p	OLLUTION PERMIT issued tection. I understand that the ermit and/or other applicable
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Operator's Well No. UNB 215

Mountaineer Keystone, LLC

Proposed Revegetation Treatment: Acres Disturbed 16.3 Prevegetation pH unknown

Lime 2.67 Tons/acre or to correct to pH 6.4

Fertilizer type 10-20-20

Fertilizer amount 600 lbs/acre

Mulch 3-4 Tons/acre

Seed Mixtures

len	iporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	129	Orchard Grass	129
Ryegrass	93	Ryegrass	93
Clover	24	Clover	24
Timothy	45	Timothy	45

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

moul Plan Approved by:

Comments: Pre-seed / mulch all disturbed areas as soon as reasonably possible per regulation.

レ_{_)N0}

Upgrade E & S where needed per WV DEP E& S manual, if necessary.

Title: Oil and Gas Inspector

12-18-15 Date:

Field Reviewed?

)Yes

(

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MrV Department of Environmental Protontio**03/24/2017**



SITE SAFETY PLAN

UNB #215 Well PAD

911 Address:

8740 Victory Avenue

Grafton, WV 26354

Samert I. Mayrello

12-12-16

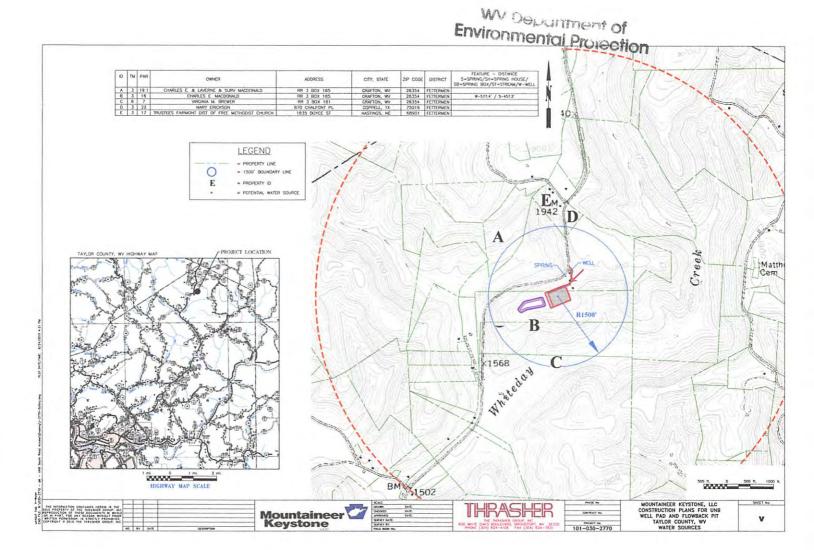
RECEIVED Office of Oil and Gas

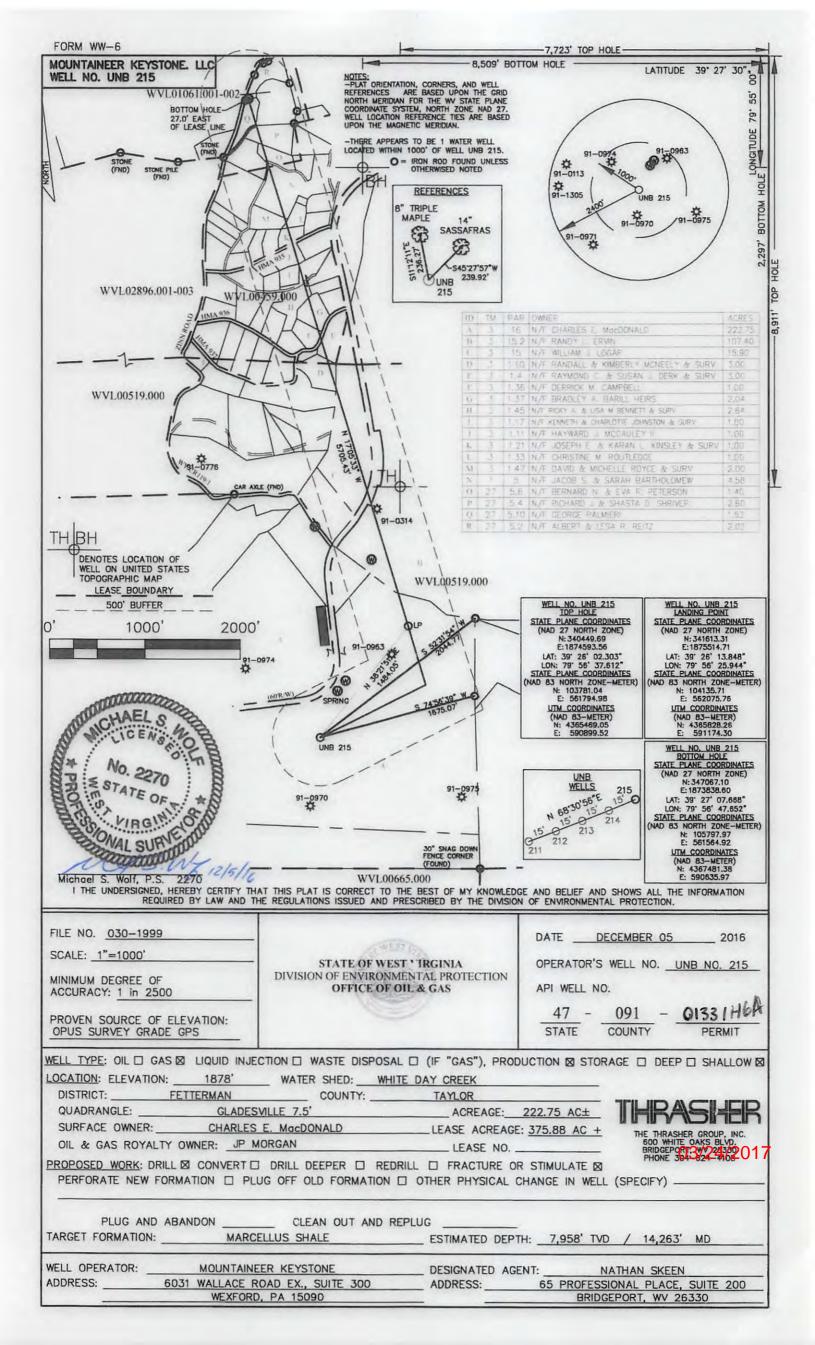
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WW-6A1 (5/13)

Operator's Well No. UNB 215

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) 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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Pag
--------	-----------------------	-----------------------	---------	----------

*See attached sheet

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

The permit applicant for the proposed well work addressed in this application hereby acknowledges 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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Mountaineer Keystone, LLC
By:	Eddie Carder Allash
Its:	Regulatory Affairs Manager

Page 1 of 2

Glics of Oil and Gas

DEC 1 6 2016

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Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	() () () ()
WVL00519.000	Union National Bank, Trustee - Truman E. Gore and C. Burke Morris	Pepper Resources, Inc.	12.50%	44/70	P 2 90Z
	Pepper Resources, Inc.	Petroleum Development Corporation		19/440 31/28	16
	Petroleum Development Corporation	PDC Mountaineer, LLC		30/698	0-0
	PDC Mountaineer, LLC	PDC Mountaineer Holdings, LLC			
WVL00459.000	Melba M. Zinn, widow and John V. Zinn II	Pepper Resources, Inc.	12.50%	44/28 45/60	<u> </u>
	Pepper Resources, Inc.	Petroleum Development Corporation		19/440 31/28	0
	Petroleum Development Corporation	PDC Mountaineer, LLC		30/698	
	PDC Mountaineer, LLC	PDC Mountaineer Holdings, LLC		· · · · · · · · · · · · · · · · · · ·	
WVL01061.001	Donald W. Collins and Robin Collins, his wife	PCD Mountaineer, LLC	12.50%	1148/904	14
	PDC Mountaineer, LLC	PDC Mountaineer Holdings, LLC			
WVL01061.002	Melba M. Zinn Trust, A West Virginia testamentary trust of which Payton D. Fireman serves as sole Trustee	PCD Mountaineer, LLC	12.50%	1151/618	14
	PDC Mountaineer, LLC	PDC Mountaineer Holdings, LLC			

Attachment to WW-6A1, UNB No. 215HM

Agreement to Drill, Complete and Operate Oil & Gas Wells

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Mountaineer Keystone LLC, a West Virginia limited liability company ("Mountaineer Keystone"), PDC Mountaineer, LLC, a Delaware limited liability company ("PDC"), and PDC Mountaineer Holdings, LLC, a Delaware limited liability company ("PDC Holdings"), is effective as of October 15, 2014. (the "Effective Date") and sets forth the terms pursuant to which Mountaineer Keystone will drill, complete and operate the Wells (as defined below) on behalf of PDC and PDC Holdings. Mountaineer Keystone, PDC, and PDC Holdings are each a "Party" and are collectively the "Parties". In consideration of the foregoing and the respective agreements hereinafter set forth and the mutual benefits to be derived therefrom, the Parties, intending to be legally bound, hereby agree as follows:

- 1. Term: This Agreement is effective from the Effective Date until terminated by Mountaineer Keystone on the one hand or PDC and PDC Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").
- 2. Authorization to Operate: PDC and PDC Holdings authorize Mountaineer Keystone to undertake and perform, on PDC and PDC Holdings behalf, all operations, including without limitation permit applications, well pad preparation, drilling and completing wells, and marketing gas, oil and other hydrocarbons therefrom with respect to all oil and gas wells to be drilled on oil and gas leasehold acreage held by PDC or PDC Holdings. PDC, PDC Holdings and Mountaineer Keystone are affiliates with a common parent. Mountaineer Keystone was formed to operate oil and gas leasehold acreage held by PDC, PDC Holdings and certain other affiliates. Mountaineer Keystone agrees that it shall, in a good and workmanlike manner and in accordance with industry standards as they prevail in the area, drill, complete and operate oil and gas wells on leasehold acreage owned by PDC or PDC Holdings from time to time as directed by PDC or PDC Holdings (collectively, the "Wells").
- 3. No Third Party Beneficiary: This Agreement is for the benefit of the Parties and is not for the benefit of any third party.
- 4. Counterparts: This Agreement may be simultaneously executed in several counterparts and via facsimile or similar electronic transmittal, each of which shall be deemed to be an original and taken together shall constitute one and the same instrument.

[Signature Page Follows]

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VIV Department of Environmental Protection

> 03/24/2017 US_ACTIVE-117570092

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IN WITNESS WHEREOF, Mountaineer Keystone, PDC, and PDC Holdings have caused their duly authorized representatives to execute this Agreement as of the Effective Date.

MOUNTAINEER KEYSTONE LLC

By:_ Name: Title: CEO

PDC MOUNTAINEER, LLC By: Name: R.L.

Title: Caro

PDC MOUNTAINEER HOLDINGS, LLC

By:_ Name: Robert Korr /

Title: CEO

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DEC 1 6 2016

WV Department of Environmental Protection





8/20/2015

Gene Smith Assistant Chief – Office of Oil and Gas WVDEP 601 57th Street, SE Charleston, WV 25304

RE: Ownership of Roadways; UNB Pad, Taylor County, Fetterman District

Dear Mr. Smith:

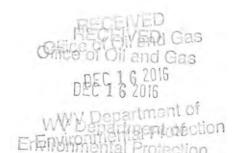
In preparation of filing a permit application for the above referenced well, Mountaineer Keystone's Title Department conducted thorough title examinations to determine ownership of the oil and gas underlying all roadways crossed by the proposed well. The findings of our examinations show that that the roadways crossed by the proposed well are right of ways only, with the oil and gas being owned and covered by our leasehold as provided on the plat for the proposed well.

If you have any questions, concerns or need further information, please do not hesitate to contact me at the contact information below.

Sincerely,

Ola Lavender

Orla Lavender Director of Title



6031 Wallace Road Extension, Suite 300, Wexford, PA 15090 Phone (724) 940-1100 eFax 1-800-428-0981 03/24/2017

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 12/13/2016

API No. 47- 091	- 01331
Operator's Well No	UNB 215
Well Pad Name:	JNB

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	LITM NAD 92	Easting:	4365469.05	
County:	Taylor	UTM NAD 83	Northing:	590899.52	
District:	Fetterman	Public Road Acc	cess:	Rt. 119	
Quadrangle:	gle: Gladesville 7.5' Generally use	farm name:	Charles E. MacDonald		
Watershed:	White Day Creek			Second	

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	□ RECEIVED
□ 3. NOTICE OF INTENT TO DRILL OF □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	RECEIVED
5. PUBLIC NOTICE	RECEIVED
6. NOTICE OF APPLICATION	□ RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.



Certification of Notice is hereby given:

THEREFORE, I <u>Nathan</u> Skeen, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	Mountaineer Keystone, LLC	Address:	65 Professional Place, Suite 200
By:	Nathan Skeen Ac Sha		Bridgeport, WV 26330
Its:	Designated Agent	Facsimile:	800-428-0981
Telephone:	724-940-1202	Email:	ecarder@mkeystone.com
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NOTARY SEAL	- bscribed and swe	orn before me this ^{13th} day of December, 2016

CONTRACTOR OF	NOTARY SEAL
	NOTARY PUBLIC
Harris i	STATE OF WEST VIRGINIA
2000	DEPUIS ROUPE
· (22-1, 10-1)	540 FAUST STREET
E.	FAIRMONT, WV 26554
Filingonnet	My commission expires March 5, 2022

Subscribed and sworn before me this 13th day of Decemb	er, 2016
Dellui Roupe	_Notary Public
My Commission Expires Much 5, 2022	/

## **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

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DEC 1 6 2016

V/V Department of Environmental Protection 03/24/2017 WW-6A (9-13)

API NO. 47- <u>091-01331</u>	
OPERATOR WELL NO. UNB 215	
Well Pad Name: UNB	

#### STATE OF WEST VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 12/13/2016 Date Permit Application Filed: 12/14/2016

Notice	of:
--------	-----

⊻	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	<b>RECEIPT OR SIGNATURE CONFIRMATION</b>

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s) Name: Mr Charles E. MacDonald						
Address: RR3 Box 165						
Grafton, WV 26354						
Name:						
Address:						
SURFACE OWNER(s) (Road and/or Other Disturbance						
Name: Mr. Charles E. MacDonald						
Address: RR 3 Boxd 165						
Grafton, WV 26354						
Name:						
Address:						
SURFACE OWNER(s) (Impoundments or Pits)						
Name: Mr. Charles E. MacDonald						
Address: RR 3 Box 165						
Grafton, WV 26354						

-	OWNER OR L	LESSEE		
Name: Address:				
COAL	OPERATOR			_
Address:				
AND/OR Name: M	CE OWNER ( WATER PUR r. Charles E. MacDo RR 3 Box 165 26354	VEYOR(s)	VELL	)
OPERA Name:	TOR OF ANY	YNATURAL	GAS STO	ORAGE FIELD
Address:			<u>. O = 174</u> - ( 1711 - 2	
*Please at	tach additional		essary	
		DE	r 1 S 2	2015

API NO. 47-091 - 0/	331
OPERATOR WELL NO.	UNB 213
Well Pad Name: UNB	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **VOLUNTARY STATEMENT OF NO OBJECTION**

## Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

## **Comment and Waiver Provisions**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided. That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

## VOLUNTARY STATEMENT OF NO OBJECTION

I, Charles E. MacDonald and LaVernes M. MacDonald, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through ²³ , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	590806.17
County:	Taylor	UTMINAD 85	Northing:	4365485.5
District:	Fetterman	Public Road Acc	cess:	US 119
Quadrangle:	Gladesville	Generally used f	arm name:	MacDonald
Watershed:	White Day Creek	-		

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.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
SURFACE OWNER	Signationes les Mar Donald Failanne M. Mar Dansel Print String Plas Esta Dound Laverne M. Mac Donald
SURFACE OWNER (Road and/or Other Disturbance)	Print Offing ALBS EAARDound Laverne M MacDonald Date: 9/1/15
SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION, ETC.
COAL OWNER OR LESSEE	Company:
COAL OPERATOR	By: Its:
WATER PURVEYOR	Signature:
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:
	hacartan

#### **Oil and Gas Privacy Notice:**

Cilico of Oil and Gas The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. V/V Department of Environmental Protection 03/24/2017

API NO. 47- 091 - 01	1331
OPERATOR WELL NO.	UNB 214
Well Pad Name: UNB	

03/24/2017

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

## Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

## **Comment and Waiver Provisions**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

## VOLUNTARY STATEMENT OF NO OBJECTION

I, Charles E. MacDonald and LaVerne M. MacDonald, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 23 , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia		Easting:	590895.35	
County:	Taylor	UTM NAD 83	Northing:	4365467.22	
District:	Fetterman	Public Road Acc	cess:	US 119	
Quadrangle:	Gladesville	Generally used f	arm name:	MacDonald	
Watershed:	White Day Creek	•			

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.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
SURFACE OWNER	signature: EMacDay alt Intime 17 Mar Hawland
SURFACE OWNER (Road and/or Other Disturbance)	Signature: Print Nation & Lizz F. Mar Dorold Laverne M. Mar Dorold Date: 9/1/15
SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION, ETC.
COAL OWNER OR LESSEE	Company:
COAL OPERATOR	By: Its:
WATER PURVEYOR	Signature:
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:

#### Oil and Gas Privacy Notice:

Child Children The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wy.gov. And a straight of the second second Endersished Protect

API NO. 47- 091 - C	1331
OPERATOR WELL NO.	UNB 215
Well Pad Name: UNB	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **OLUNTARY STATEMENT OF NO OBJECTION**

## Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### **Comment and Waiver Provisions**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

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## **VOLUNTARY STATEMENT OF NO OBJECTION**

I, Charles E. MacDonald and LaVerne M. NacDonald , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 23 , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia		Easting:	590889.52	
County:	Taylor	UTM NAD 83	Northing:	4365469.05	
District:	Fetterman	Public Road Acc	æss:	US 119	_
Quadrangle:	Gladesvile	Generally used f	arm name:	MacDonald	
Watershed:	White Day Creek	•			—

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.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
SURFACE OWNER	Signature: E MacDondol La Jernell the male
SURFACE OWNER (Road and/or Other Disturbance)	Print Name: CHARIES AND DAVALG La Verne Mitac Dona 1
SURFACE OWNER (Impoundments/Pits)	
COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC.
COAL OPERATOR	By: Its:
WATER PURVEYOR	Signature:
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:

#### **Oil and Gas Privacy Notice:**

illo) al Cillion t G The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the pormal 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacy officer@wv.gov.

WW-6RW (1-12)

<b>POUNTAINEER PEYSTO</b>	HE LLC-ERIC LANTZ	
65 PPOFESSION4_ PL	ACE API NO. 47- 081 30-1899 ERATOR WELL N	- 01331
BRIPHEPURI, NV 200	50-100 ERATOR WELL N	10. 212
. 1172	Well Pad Name: UN	

# 11-473

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

The well operator, Mountaineer Keystone, LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

#### Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.

## WAIVER

I. Charles E MacDonald and Lawrens M. MacDonald , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 23 , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	590836.91
County:	Taylor	UTM NAD 83 Northing:	4365463.76
District:	Fetteman	Public Road Access:	US 119
Quadrangle:	Giadesville	Generally used farm name:	MacDonald
Watershed:	White Day Creek	•	

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 and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIV	ED FOR E	EXECUTION BY A NA	TURAL PERSON
*Please check all that apply	Signati	toarles [. Machin	& Lawarke M. Hpe Douch
EXISTING WATER WELLS	Print N Date: _	lame: Charles E. MacDonald an	d Laveme M. MecDoneld
DEVELOPED SPRINGS	FOR E Compa	XECUTIÔN BÝ A CO ny:	DRPORATION, ETC.
DWELLINGS	Ву:		Georgianna Thompson
	Its:		TAM DR County 02:32:32 Ph
AGRICULTURAL BUILDINGS		ire:	Instrument No 2015014P31
	Date: _		Date Recorded 09/31/2015
Well Operator: Mountaineer Keystone, LLC	Signature:		-Document Type HIS
By: Nathan Skeen	Telephone: 724	-940-1205	Pases Recorded 1
Its: OFFICIAL SEAL			BCJ:-Page 11-473
Notary Public, State Of West Virginia			Recording Fee \$5.0)
NOTATED Lake	Subscribed and sworn before n	ne this <u>27</u> day of	AMAKINAL ZOASTU
My Commission Expires January 13, 2020	LOLE DOOD	lat	Notary Public
	My Commission Expires	SANIMEY 15,2	010101) 020

#### **Oil and Gas Privacy Notice:**

STATENCES The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business of 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer a wy.gov.

WW-6A (9-13)

API N	0.47-	.091	- D -	133	L

OPER	ATOR	WELI	_ NO.  ִ	215
Well P	ad Nar	ne: UN	1B	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 12/13/2016 Date Permit Application Filed: 12/14/2016

$\checkmark$	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:

SURFACE OWNER(s)	
Name:Address:	
Name:	•
Address:	-
SURFACE OWNER(s) (Road and/or Other Dis Name: Address:	turbance) -
Name:Address:	- -
SURFACE OWNER(s) (Impoundments or Pits) Name: Address:	-   -

COAL (	OWNER OR LESSEE
	triot Reserve Holdings, LLC
Address:	500 Lee Street East, Suite 900
Ch	arteston, WV 25301
COAL	OPERATOR
	atriot Reserve Holdings, LLC
Address:	500 Lee Street East, Suite 900
	Charleston, WV 25301
<b>U</b> SURFA	CE OWNER OF WATER WELL
	WATER PURVEYOR(s)
Name:	
Address:	
	ATOR OF ANY NATURAL GAS STORAGE FIELD
Name:	_
Address:	heo-Heed
	Ciipp of Oil and Cas
*Please a	ttach additional forms if necessary
	DEC 1 S 2016

VIV Department of Environmentel Pt <mark>03/24/2017</mark>

API NO. 47- <u>091 - 0133(</u>	
OPERATOR WELL NO. 215	
Well Pad Name: UNB	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 12/13/2016 Date Permit Application Filed: 12/14/2016

PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	<b>RECEIPT OR SIGNATURE CONFIRMATION</b>

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)	
Name:	
Address:	
Name:	
Address:	
SURFACE OWNER(s) (Road and/or Other Dist Name:	urbance)
Address:	
Name:	
Address:	
SURFACE OWNER(s) (Impoundments or Pits) Name:	
Address:	

COAL	OWNER OR LESSEE	
Name: E	astern Associated Coal Corporation	
Address:	500 Lee Street East, Suite 202	
Cł	harleston, WV 25301	
COAL	OPERATOR	
Name: E	astern Associated Coal Corporation	
Address:	500 Lee Street East, Suite 202	
	Charleston, WV 25301	
<b>SURF</b> A	ACE OWNER OF WATER WELL	
AND/OR	K WATER PURVEYOR(s)	
Name:		
Address:		
	ATOR OF ANY NATURAL GAS STOR	AGE FIELD
Name:		
Address:		
	The second	

*Please attach additional forms if necessary CCS

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OPERATOR WELL NO. 215 Well Pad Name: UNB

STATE OF WEST VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 12/13/2016 Date Permit Application Filed: 12/14/2016

Noti	ice of:		
Ø	PERMIT FOR ANY		FICATE OF APPROVAL FOR THE
	WELL WORK	CONST	RUCTION OF AN IMPOUNDMENT OR PIT
Deli	ivery method pursua	nt to West Virginia C	Code § 22-6A-10(b)
	PERSONAL		METHOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL	<b>RECEIPT OR SIGNATURE CONFIRMATION</b>
			than the filing date of the application, the applicant for a permit for a permit for a permit for a

any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

□SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name: Ark Land Company
Address:	Address: 114 Miley Drive Suite B
	Charleston, WV 25311
Name:	COAL OPERATOR
Address:	Name:
	Address:
□ SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name:
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary
	DEC 162016

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

OPERATOR WELL NO. UNB 215 Well Pad Name: UNB

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

## Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

## Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

## Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

## Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

RECEIVED Clibo of Oil and Gas

Such persons may request, at the time of submitting written comments, notice of the permit decision and a dist of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WV Department of Environmental Protection <mark>03/24/2017</mark> WW-6A (8-13)

A	PI NO. 47- 9	- 0	1331
0	PERATOR WI	ELL NO.	UNB 215
W	ell Pad Name:	UNB	
0	PERATOR WI	ELL NO.	

## Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) 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 adequate delivery time or to arrange special 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

#### **Comment Requirements**

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

FIEOEIVED Office of Ourand Gas

DEC 1 6 2016

Environmental Protection 03/24/2017

WW-6A (8-13)

API NO. 47- 91	- 01331
OPERATOR WE	ELL NO. UNB 215
Well Pad Name:	UNB

## Notice is hereby given by:

Well Operator: Mountaineer Keystone, LLC	EDDE CARDOR.	28 Cada
Telephone: 724-940-1204		
Email: ecarder@mkeystone.com		

Address: 6	5 Professional Place, Suite 200	
Bridgeport, W	V 26330	
Facsimile:	304-848-9134	

## **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WEST PA	OFFICIAL SEAL
	NOTARY PUBLIC
E/ Bolin V	STATE OF WEST VIRGINIA
詞( <b>全</b> 和)(二)	DEBBIE ROUPE
* (21 201 2010-1)	548 FAUST STREET
2 1.5	FAIRMONT, WV 26554
Ale and	My commission expires March 5, 2022

Subscribed and sworn before me this 12 day of Ale,	2016
Subscribed and sworn before me this <u>12</u> day of <u>Alc</u> ,	Notary Public
My Commission Expires March 5.202	2

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

## WAIVER

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

## Surface Owner Waiver:

I, <u>Charles E. MacDonald and LaVerne M. MacDonald</u>, hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:	West Virginia		Easting:	4365469.05	
County:	Taylor	UTM NAD 83	Northing:	590899.52	
District:	Fetterman	Public Road Acc		US 119	
Quadrangle:	Gladesville	Generally used f		MacDonald	
Watershed:	White Day Creek				
Address: 88	RLES E IVAC DONALD	Signature: <u>d</u> Date: <u></u>	charles ??	Mac Donald Jerno My Moe Donald	

## **Oil and Gas Privacy Notice:**

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// Copertment of Devronmental Protection

03/24/2017

API NO. 47-091 - O	1331
OPERATOR WELL NO.	UNB 212
Well Pad Name: UNB	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

## Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### **Comment and Waiver Provisions**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

## **VOLUNTARY STATEMENT OF NO OBJECTION**

I, <u>Charts E. MacDonald and LaVerne M. MacDonald</u>, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through <u>23</u>, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	590886.91
County:	Taylor	Northing	: 4365463.76
District:	Fetterman	Public Road Access:	US 119
Quadrangle:	Gladesville	Generally used farm name:	MacDonald
Watershed:	White Day Creek	-	

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.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
SURFACE OWNER	Signature: Machinell Sa Leave M Mac Dougl
SURFACE OWNER (Road and/or Other Disturbance)	Print Narth ARLES F. MANDANALS LAVARDEN MACDONAL Date: 9/11/5
SURFACE OWNER (Impoundments/Pits)	
COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC.
COAL OPERATOR	By: lts:
WATER PURVEYOR	Signature:
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:

#### **Oil and Gas Privacy Notice:**

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WW-6RW (1-12)

Fountaineer Keystone LLC-Eric Lantz	
65 PROFESSIONAL PLACE API NO. 47-001 ERIDGEPERT, #1 20330-100 PERATOR WELL NO.	01331
UNDULTUTION OF COMPERATOR WELL NO.	213
/- 74 Well Pad Name: UNB</td <td></td>	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **LOCATION REST**

The well operator, Mountaineer Keystone, LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

#### Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.

## WAIVER

I, Charles E. MacDonald and Lawrence M. MacDonald, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 23 , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	590806.17
County:	Taylor	UTM NAD 83 Northing:	4365485.5
District:	Fetterman	Public Road Access:	US 119
Quadrangle:	Gizdesville	Generally used farm name:	MacDonald
Watershed:	White Day Creek	-	

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 and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIV *Please check all that apply	ED	FOR EXECUTION BY A NA	JUBAL PERSON
EXISTING WATER WELLS		Print Name: Charles E. MacDonald ar Date:	nd Laverne M. MacDonald
DEVELOPED SPRINGS		FOR EXECUTION BY A CO	
DWELLINGS		By: Its:	Georgianna Thaspson
AGRICULTURAL BUILDINGS		Signature: Date:	<u>TAYLOR County-02</u> :33:58 F% <u>Instrument No 20</u> 15/11/202 <del>Justo Recorded 0</del> 8/31/2015
Well Operator: Mountaineer Keystone, LLC	Signat	ture:	- Becurrent Type MIS
By: Nathan Skeen	Telepl	hone: 724-940-1205	
Its: Designated Agent			- Pages Recorded 1-
OFFICIAL SEAL	Subscribed and sworn	before me this <b>27</b> day of	Book-Page 11-474 Seconding Fee \$5.00 Additional 20156.00
COLE DODD 730 Maple Lake Bridgeport, WV 26330 My Commission Expires January 13, 2020	COLE DO		Notary Public
Oil and Gas Privacy Notice:	My Commission Expi	res JANUARY 13	
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**Oil and Gas Privacy Notice:** 

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WW-6A5 (1/12)

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF PLANNED OPERATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 12/13/2016 Date Permit Application Filed: 12/14/2016

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAN	
RETURN RECEIPT REQUESTED		DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Mr. Charles MacDonald	Name:
Address: RR 3 Box 165	Address:
Grafton, WV 26354	

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83	asting:	590886.81	
County:	Taylor	UTMINAD 85 N	orthing:	4365463.76	
District:	Fetterman	Public Road Access	:	Rt. 119	
Quadrangle:	Gladesville 7.5'	Generally used farm	n name:	Charles E. MacDonald	
Watershed:	White Day Creek				

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator:	Mountaineer Keystone, LLC	Address:	65 Professional Place, Suite 200	
Telephone:	724-940-1204		Bridgeport, WV 26330	
Email:	ecarder@mkeystone.com	Facsimile:	304-848-91347	

#### **Oil and Gas Privacy Notice:**

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WW-6RW (1-12)

M'ILNTAINEER KEVSTONE	LLC-ERIC LANTZ
65 PPOFESSIONAL PLAC	EAPI NO. 47091O1331 - 1992 ERATOR WELL NO214
ERILETPOPT, W 26330	OPERATOR WELL NO. 214
475	Well Pad Name: UNB
7.0	

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

The well operator, Mountaineer Keystone, LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

#### Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.

## WAIVER

1, Charles E. MacDonald and Levenne M. MacDonald , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 23 , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	590895.35
County:	Teylor	UTM NAD 83 Northing:	4365467.22
District:	Feteman	Public Road Access:	US 119
Quadrangle:	Gladesville	Generally used farm name:	MacDonaid
Watershed:	While Day Creek	-	

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 and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVI	ED FOR EXECUTION	N BY A NATURAL PERSON
*Please check all that apply	Signature Keerles	Effactively Laverne M. Martine
EXISTING WATER WELLS		. MacDonald and Laverne M. MacDonald
EI EXISTING WATER WEELS		27,2015
DEVELOPED SPRINGS		N BY A CORPORATION, ETC.
	Company:	
DWELLINGS	By:	Georgianna Thereich
	Its:	
AGRICULTURAL BUILDINGS	Signature:	
	Date:	
Well Operator: Mountsineer Keystone, LLC	Signature:	
By: Nathan Skeen	Telephone: 724-940-1205	
Its: Designated Agent		
		Boo!-Page 11-175
	Subscribed and success before we ship 27	Separdin 1 Fee, \$5.()
NROTA Public State Of West Virginia	Subscribed and sworn before me this <u>c i</u>	
COLE DODD	Chill Dava La	V CON CONTRACTOR DULLES
Ridracott WV 26330	OLK0000	Notary Public
My Commission Expires January 13, 2020	My Commission Expires	V 13 Aram
	My commission ExplicesANUHL	7 ULC 1 3 2015
Well Operator: Mountaineer Keystone, LLC By: Nathan Skeen Its: Designated Agent OFFICIAL SEAL Notach Public, State of West Virginia COLE DODD 730 Maple Lake Bridgeport, WV 26330	Date:	Instrument No 2015014(83 Date Recorded 09/31/2015 Powent Type Hils Pages Recorded 1 Booli-Page 11-475 Secording Fee \$5.60

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WW-6RW (1-12) HOUNTAINEER KEYSTONE LLC-EPIC LANTZ 65 PROFESSICIAL PLACE API NO. 47-091 - 01331 BRIDGEPORT, W 26330-188 PERATOR WELL NO. 216 Well Pad Name: UNB

11- 176

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL LOCATION RESTRICTION WAIVER

The well operator, Mountaineer Keystone, LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

#### Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.

## WAIVER

I, <u>Charles E. MacDonald and Lawrence M. MacDonald</u>, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through <u>23</u>, including the erosion and sediment control plan, if required and the well plat all for proposed well work on the tract of land as follows:

required, and	the went place an ior proposed went work on the	naci of fand as follows.	
State:	West Virginia	UTM NAD 83 Easting:	590889.52
County:	Taylor	UTM NAD 83 Northing:	4365469.05
District:	Fetterman	Public Road Access:	US 119
Quadrangle:	Giadesville	Generally used farm name:	MacDonald
Watershed:	White Day Creek		

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 and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED *Please check all that apply EXISTING WATER WELLS	FOR EXECUTION BY AN Signature Alex Markov Print Name: Charles E. MacDonald Date: Word 27, 3	1 and Laverne M. MacDonald
DEVELOPED SPRINGS	FOR EXECUTION BY A C	
DWELLINGS	Ву:	<del>Georgiama Thomp</del> son
AGRICULTURAL BUILDINGS	Its: Signature: Date:	TAYLOR County 02:36:20 PM Instrument No 2015014984
Well Operator: Mountaineer Keystone, LLC	Signature:	Pate Securded 08/31/2015
By: Nathan Skeen	Telephone: 724-940-1205	Document Type HIS
Its: Designated Agent	_	Pages Recorded 1 Book-Page 11-476
Notary Public, State Of West Virginia COLE DODD 730 Maple Lake Bridgeport, WV 26330	ed and sworn before me this <u>27</u> day or <u>COLE</u> <u>0000</u> Unission Expires <u>Addugay</u> 13	Deeperding Foo \$5 (A

Oil and Gas Privacy Notice:

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03/24/2017



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## **Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin Governor

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

August 21, 2015

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the UNB Pad, Taylor County

UNB 211 Well Site UNB 214 Well Site UNB 212 Well Site UNB 215 Well Site UNB 213 Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #04-2015-0726 for the subject site to Mountaineer Keystone, LLC for access to the State Road for the well site located off of US 119 T in Taylor County.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT for DOH District 4 and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

any K. Clayton

Gary K. Clayton Regional Maintenance Engineer Central Office Oil &Gas Coordinator

REGEIVED Office of Oil and Gas

DEC 1 6 2016

WV Department of Environmental Prol 03/24/2017

Cc: Amy L. Miller Mountaineer Keystone, LLC CH, OM, D-4 File

E.F.O./AFFIRMATIVE ACTION EMPLOYER

WellName UNB #212, 213, 214 and 215						
FRACTURING ADDITIVES						
	PURPOSE	TRADE NAME	CAS #			
Additive #1:	Friction Reducer	WFRA-405	Proprietary			
Additive #2:	Scale Inhibitor	SI-1000	7440-21-3			
Additive #3:	Biocide	BIOCLEAR 2000	25314-61-8			
Additive #4:	Gelling Agent	LGC-15	9000-30-0			
Additive #5:	Corrosion Inhibitor	AI-300	111-76-2			
Additive #6:	Gel Breaker	AP-One	7727-54-0			
Additive #7:	Acid	HCI - 7.5%	7647-01-0			

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V/V Department of Environmental Pr<mark>03/24/2017</mark>

