

west virginia department of environmental protection

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

October 21, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-9101325, issued to MOUNTAINEER KEYSTONE, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

Operator's Well No: UNB 211

Farm Name: MACDONALD, CHARLES E.

API Well Number: 47-9101325

Permit Type: Horizontal 6A Well

Date Issued: 10/21/2015

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. 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.
- 8. 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.
- 9. 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.

API NO. 47	:	
OPERATOR	WELL NO.	211
Well Pad N	lame: UNB	

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

1) Well Operato	or: Mounta	aineer Keyst	one, LL	4945	01227	Taylor	Fetterma	Gladesville 7.5'
				Oper	ator ID	County	District	Quadrangle
2) Operator's W	ell Number	r: <u>211</u>			_ Well Pad	Name: UNB	_	
3) Farm Name/S	Surface Ow	ner: Charles	E. MacDo	onald	Public Road	d Access: Rt.	119	
4) Elevation, cu	rrent groun	d: 1882.29	9' Ele	evation	, proposed j	oost-construction	on: 1878.3	9'
5) Well Type	(a) Gas	х				rground Storag		
	Other							•
	(b)If Gas	Shallow	x		Deep			
		Horizontal	X		_			
6) Existing Pad:	Yes or No	no					RECEIVE Office of Oil and	D 1 Gas
7) Proposed Tar	get Formati	ion(s), Depth	(s), Antici	pated 1	Thickness as	nd Expected Pr	essure(s):	
Marcellus Sha	ale, 787 <u>7'</u> (T	VD Heel), 795	8' (TVD T	oe), 98	', 0.5psi/ft		OCT 14	2015
8) Proposed Tot	al Vertical	- Depth: 7958	 3'				Consti	nent of
9) Formation at			Marcellus	Shale		E	My Departed	Protection
10) Proposed To	otal Measur	ed Depth: 1	14,431'					
11) Proposed Ho	orizontal Le	eg Length: 5	5,848'				·	
12) Approximat	e Fresh Wa	ter Strata De _l	oths:	350'	_			
13) Method to D	etermine F	resh Water D	epths: Of	fisetting w	ells reported wate	r dopihs (091-00113, 0	91-00776, 091-0	0958, 091-00963, 091-00970)
14) Approximat	e Saltwater	Depths: 910	0'					
15) Approximat	e Coal Sean	n Depths: Bai	kerstown 30', Upp	per Freepo	rt 218', Lower Freep	ort 290', Upper Kittanning	345', Middle Kitta	nning 388', Lower Kittanning 438'
16) Approximat	e Depth to I	Possible Void	l (coal mir	ne, kar	st, other): 1	lone known		
17) Does Propos directly overlyin					es	No	x	
(a) If Yes, prov	viđe Mine I	nfo: Name:						
(-) F		Depth:						_
		Seam:						
		Owner	:					

API NO. 47	
OPERATOR WELL NO.	211
Well Pad Name: UNB	_

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24°	New	H-40	94#	80'	80'	CTS
Fresh Water	13.375"	New	J-55	54.5#	500'	540'	CTS
Coal							
Intermediate	9.625"	New	J-55	40#	1500'	1500'	CTS
Production	5.5"	New	P-110	20#	14,431'	14,431'	TOC @ 1,350' MD
Tubing					1		
Liners							

Timut Loyweek 10-14-15

ТУРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (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	RECEIVED	Class A, 2% CaC12	1.29
Production	5.5"	8.5-8.75	0.361"	12,640 psi	Offi@@Ooi and G	^{as} Type 1	1.64/1.32
Tubing					059904 7		
Liners					N/A		

WV Department of Environmental Protection

PACKERS

Kind:		i
Sizes:		
Depths Set:		

WW-6B
(10/14)

API NO. 47	
OPERATOR WELL NO2	11
Well Pad Name: UNB	

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

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- ½" 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, stock	cnile area, ni	its, etc., (ac	_{res):} 16.3
41)	Total Africa to be distuibed,	moraumg rodus, stoc	thire area, b	165, 000.0 (40	

- 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 get 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 string we have income of the well.

*Note: Attach additional sheets as needed.

API Number 47 -	-
Operator's Well No.	DNR 344

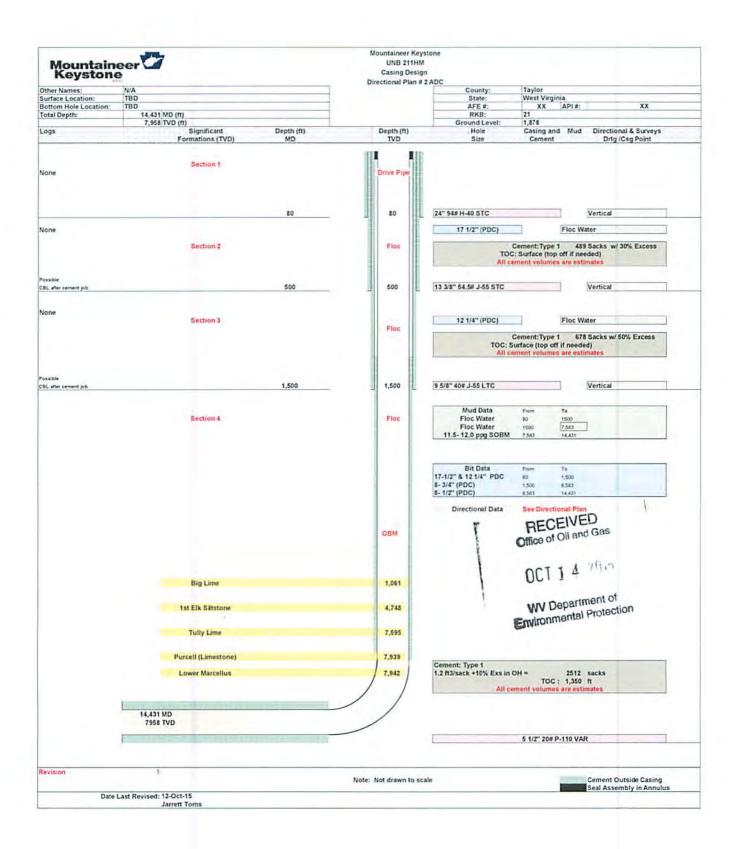
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

09101325

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) White Day Creek Quadrangle Giadeswille 7.5' Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No If so, please describe anticipated pit waste: produced water Will a synthetic liner be used in the pit? Yes No If so, please describe anticipated pit waste: produced water Will a synthetic liner be used in the pit? Yes No If so, please describe anticipated pit waste: produced water Will a synthetic liner be used in the pit? Yes No If so, what mil.? 60 ml Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain For ill closed loop system be used? If so, describe: Yes Packaded loop system will contain all of the delilog medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. white headen health to have be taken to have be ta	Operator Name Mountaineer Keystone, LLC	OP Code 494501227
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Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Will closed loop system be used? If so, describe: Ver. the dotted loop system will contain all of the drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. -If oil based, what type? Synthetic, petroleum, etc. synthetic Additives to be used in drilling medium? As proposed by mud provider 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 Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Title Designated Agent Subscribed and sworn before me this 20th day of August 20th Sugarton we 2555 Notary Public 3m Age 2555 Notary Public 3m Age 255		
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10/22/2015	My commission expires 03/15/2022	Office My corumission expires March 15, 2022
ATT TO THE PART OF		SEP 1.1 7815 10/23/2015

Mountaineer Keysto	ne, LLC		
Proposed Revegetation Treatr	ment: Acres Disturbed 16.3	Prevegetation p	pH unknown
Lime 2.67	Tons/acre or to correct to	pH 6.4	
Fertilizer type 10-2	0-20	<u>+</u>	470910132
Fertilizer amount 60	0	_lbs/acre	47091013
Mulch 3-4	To	ns/acre	
	<u>\$</u>	Seed Mixtures	
Ter	nporary	Perm	nanent
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
provided) Photocopied section of involv	ed 7.5' topographic sheet.		
Plan Approved by:	Timent 1. She	nort	
		is as soon as reasonably pos	ssible per regulation.
•		PE& S manual, if necessary	
			Received
Title: 011. F. (. A.)	S INSPECTOR	Date: 9-9-14	Office of Oil & Gas
Title: OIL FCAS Field Reviewed?	V)Yes) No	SEP: 1 1 2015





SITE SAFETY PLAN

UNB #211 Well PAD

911 Address:

8740 Victory Avenue

Grafton, WV 26354

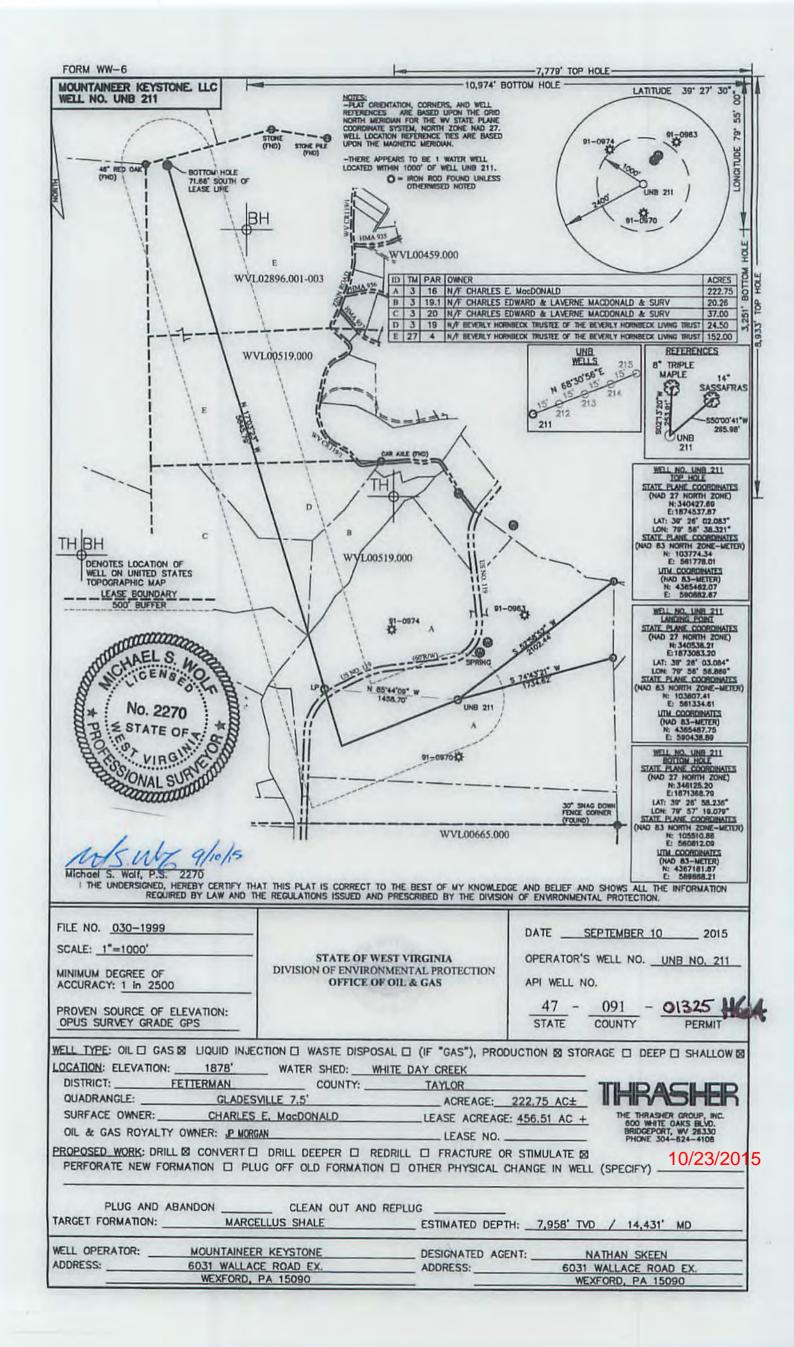
9-9-15

Smut 2. Layrouch

Received Office of Oil & Gas

SEP 1 1 2015

10/23/2015



Operator's Well No.	UNB 211
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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:

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

SEP 1 1 2015

Book/Page

*see attached pages

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 additional 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: Amy L. Miller any Stuller

Its: Regulatory Compliance Specialist

Attachment to WW-6A1, UNB No. 211HM

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
WVL00519.000	Union National Bank, Trustee - Truman E. Gore and C. Burke Morris	Pepper Resources, Inc.	12.50%	44/70	3 2 38 ⁷
	Pepper Resources, Inc.	Petroleum Development Corporation		47 0199440 V V	
	Petroleum Development Corporation	PDC Mountaineer, LLC		30/698	
	PDC Mountaineer, LLC	PDC Mountaineer Holdings, LLC			
WVL02896.001	Ronald L. and Beverly Hornbeck, H/W	Chesapeake Appalachia, L.L.C.	12.50%	1021/314 1064/301	152
	Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		34/738	
	Chesapeake Appalachia, LLC and Statoil USA Onshore Properties, Inc.	PDC Mountaineer, LLC	_	45/677	
	PDC Mountaineer, LLC	PDC Mountaineer Holdings, LLC			
WVL02896.002	Cara Michelle Davidson, a/k/a Cara Michelle Krauch	Chesapeake Appalachia, L.L.C.	12.50%	1072/754	152
	Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.			
	Chesapeake Appalachia, LLC and Statoil USA Onshore Properties, Inc.	PDC Mountaineer, LLC		45/677	
	PDC Mountaineer, LLC	PDC Mountaineer Holdings, LLC			
WVL02896.003	Beth Mays a/k/a Catherine Elizabeth (Beth) Mays	Chesapeake Appalachia, L.L.C.	15.00%	1070/137	152
	Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.			
	Chesapeake Appalachia, LLC and Statoil USA Onshore Properties, Inc.	PDC Mountaineer, LLC		45/677	
	PDC Mountaineer, LLC	PDC Mountaineer Holdings, LLC	_		



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]

47099937

Received

Office of Oil & Gas

SEP 1 1 2015

Pater Jeanning.

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

Name: Robert Kasel

Title: CEO

PDC MOUNTAINEER, LLC

4709101325

By: Name: Polet Keel

Title: CGO

PDC MOUNTAINEER HOLDINGS, LLC

Name: Robert Kozel

Title: CEO



8/20/2015

Gene Smith Assistant Chief – Office of Oil and Gas WVDEP 601 57th Street, SE Charleston, WV 25304 4709101325

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,

Orla Lavender

Director of Title

Ola Zavender

S .0 12

THE MOUNTAIN STATESMAN **PO BOX 218 GRAFTON, WV 26354** (304) 265-3333 FEIN NO. 363672215

MOUNTAINEER KEYSTONE LLC AMY L MILLER 65 PROFESSIONAL PL SUITE 200 BRIDGEPORT WV 26330

LEGAL ADVERTISEMENT INVOICE

ACCT# LEGAL# 2744 5023

DESCRIPTION Horizontal Natural Gas Well Work Permit Wel# 211; 212; 213; 214; 215

PUBICATION PUBLICATION DATES COST 8/19/2015 144.21 8/26/2015 \$ 108.16 \$ \$ \$ \$ \$ S **AFFIDAVIT FEE** 2.00 TOTAL 254.37

Legal Rate: .11 1/5 cents per word space for the first publication 75% of the first cost for each additional publication

AFFIDAVIT

STATE OF WEST VIRGINIA, COUNTY OF TAYLOR, TAMMY A LYONS, PUBLISHER of the MOUNTAIN STATESMAN a Newspaper Published in Grafton in said county. do hereby certify that the annexed

Was published once a week for two weeks in said Mountain Statesman a Newspaper as aforesaid, commencing on the 19th day of August

WEST VIRGINIA, TAYLOR COUNTY, TO WIT: Subscribed and sworn before me this 31st day of August, 2015

My commission expires

OFFICIAL SEAL Notary Public, State of West Virginia Monica G Robinson 19 Rogers Street Grafton, WV 26354 My commission cupires May 22, 2024

GAS

Received

Office of Oil &

Date of Notice Certification; 09/10/2015

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

API No. 47-

		Operator's W	ell No UNE	214 6
Notice has l	have others.	Well Pad Nan	he: TONR	
Notice has I		§ 22-6A, the Operator has provided the requir	end nautice o	ith the Matine Course lister
below for the	tract of land as follows:	§ 22-6A, the Operator has provided the requir	red parties v	viin the Notice Forms listed
State:	West Virginia	Easting: 59	90882.67	
County:	Taylor	I I M NAD 83	365462.07	
District:	Fetterman		1. 119	
Quadrangle:	Gladesville 7,5'		harles E. MacD	onald
Watershed:	White Day Creek			
prescribed by it has provid information r of giving the requirements Virginia Code	the secretary, shall be verified and s ed the owners of the surface descri- equired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of	every permit application filed under this shall contain the following information: (14) and (14), subsect the section sixteen of this article; (ii) that the requirement to subsection (a), section tends this article were waived in writing by the tender proof of and certify to the secretary that the	A certification (b), sectification (b), sectification (b), sectification (c), sectificati	on from the operator that (intion ten of this article, the deemed satisfied as a resurcle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this Notice Certi d parties with the following:	ification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE	7	□ RECEIVED/
		SEISMIC ACTIVITY WAS CONDUCTED	D	NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or I NO PLAT SURVEY WAS CON		
	TICE OF ENTRY FOR PLAT SURV		DUCTED E	NOT REQUIRED
		VEY or ■ NO PLAT SURVEY WAS CON	DUCTED E Y	NOT REQUIRED RECEIVED
■ 3. NO		VEY or NO PLAT SURVEY WAS CONDUCTED OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	DUCTED E Y	NOT REQUIRED RECEIVED
■ 3. NO	FICE OF INTENT TO DRILL or	VEY or NO PLAT SURVEY WAS CON NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE	DUCTED E Y OWNER	NOT REQUIRED RECEIVED RECEIVED NOT REQUIRED

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 Nathan 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

By: Nathan Skeen

Nathan Skeen

Designated Agent

Telephone: 724-940-1202

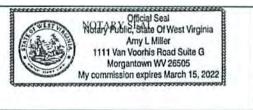
Mountaineer Keystone, LLC

Address: 65 Professional Place, Suite 200

Bridgeport, WV 26330

Facsimile: 800-428-0981

Email: amiller@mkeystone.com



Subscribed and sworn before me this 10th day of September

Notary Public

My Commission Expires 03/15/2022

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 deprivacyofficer@wv.gov.

API NO. 47-	1.		
OPERATOR WI	ELL NO.	UNB 211	
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: 9/10/2015 Date Permit Application Filed: 9/11/2015 4709101325 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 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: COAL OWNER OR LESSEE SURFACE OWNER(s) Name: Mr. Charles E. MacDonald Name: Address: RR 3 Box 165 Address: Grafton, WV 26354 COAL OPERATOR Name: Address: Name: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Mr. Charles E. MacDonald SURFACE OWNER OF WATER WELL Address: RR 3 Box 165 AND/OR WATER PURVEYOR(s) Grafton, WV 26354 Name: Mr. Charles E. MacDonald V Name: Address: RR 3 Box 165 Grafton, WV 26354 Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Mr. Charles E. MacDonald Address: Address: RR 3 Box 165 *Please atta fightitional forms if necessary Grafton, WV 26354

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WW-6A (9-13)

API NO. 47-	-	
OPERATOR W	ELL N	O, UNB 211
Well Pad Name	: UNB	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Not	ice Time Requirem	ent: notice shall be provi	ded no later t	han the filing date of permit applic	ation.
	te of Notice: 9/10/2015	_ Date Permit Applica	tion Filed: 9/	11/2015	
V	PERMIT FOR AN			PPROVAL FOR THE FAN IMPOUNDMENT OR PIT	
Del	ivery method pursu	ant to West Virginia Co	de § 22-6A-	10(b)	
	PERSONAL SERVICE	REGISTERED MAIL		HOD OF DELIVERY THAT REQUEIPT OR SIGNATURE CONFIRM.	
the soil addescroper more well imperovo provo provo corovo Cod	surface of the tract on and gas leasehold being tribed in the erosion as rator or lessee, in the election countered in the surface to election (a) the surface to counter or pit as designed water well, spring or ide water for consumposed well work activities action (b) of this section of this surface to e R. § 35-8-5.7.a requirements of the surface to e R. § 35-8-5.7.a requirements of the surface of the surface to e R. § 35-8-5.7.a requirements of the surface of the surface to e R. § 35-8-5.7.a requirements of the surface of t	which the well is or is prog developed by the proposed sediment control plan is event the tract of land on we owners of record of the surfact is to be used for the placeribed in section nine of the proposed of the secretary source location by humans or domesty is to take place. (c)(1) It on hold interests in the lartired to be maintained pursuites, in part, that the open	posed to be lo sed well work, ubmitted purs which the well rface tract or a lacement, considerated within on the animals; and f more than the nods, the application and to section en holder is no ator shall also	the well plat to each of the following cated; (2) The owners of record of the if the surface tract is to be used for rouant to subsection (c), section seven o proposed to be drilled is located [sic] tracts overlying the oil and gas leaseled struction, enlargement, alteration, report thousand five hundred feet of the cend (6) The operator of any natural gas ree tenants in common or other co-ow ant may serve the documents required a eight, article one, chapter eleven-a out notice to a landowner, unless the lie provide the Well Site Safety Plan ("Wg as provided in section 15 of this rule	surface tract or tracts overlying the ads or other land disturbance as f this article; (3) The coal owner, is known to be underlain by one or old being developed by the proposed ir, removal or abandonment of any who is known to the applicant to nter of the well pad which is used to storage field within which the ners of interests described in upon the person described in the f this code. (2) Notwithstanding any n holder is the landowner. W. Va. (SSP") to the surface owner and any
			S Plan Notic	e	provided to:
Van	URFACE OWNER(s	,		☐ COAL OWNER OR LESSEE Name: Patriot Reserve Holdings, LLC	1
				Address: 500 Lee Street East, Suite 900	
				Charleston, WV 25301	
				☐ COAL OPERATOR	1
Add	ress:		-	Name: Patriot Reserve Holdings, LLC	<i>V</i>
- 01	INDIAN OND INDIA			Address: 500 Lee Street East, Suite 900	
) (Road and/or Other Dis		Charleston, WV 25301	The state of
Nan	recei		3	SURFACE OWNER OF WAT	
Add				AND/OR WATER PURVEYOR	
Van				Name:	
Add	ress:			Address:	
			-	OPERATOR OF ANY NATUR	RAL GAS SFORAGE FIELD
SI	URFACE OWNER(s	(Impoundments or Pits)		Name:	DECEIVED
Van	ne:			Address:	Office of the Bog
Add	ress:				
				*Please attach additional forms if	necessary

WW-6A (9-13)

API NO. 47-	
OPERATOR WELL	NO. UNB 211
Well Pad Name: UNB	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requiremen	it: notice shall be provided	no later than the fili	ng date of permit application.	
Date of Notice: 9/10/2015 Notice of:	Date Permit Application	1 Filed; 9/11/2015		
PERMIT FOR ANY WELL WORK		TE OF APPROVAL	FOR THE DUNDMENT OR PIT	
Delivery method pursua	nt to West Virginia Code	§ 22-6A-10(b)		
☐ PERSONAL [REGISTERED	✓ METHOD OF I	DELIVERY THAT REQUIRES A	
SERVICE	MAIL		IGNATURE CONFIRMATION	
sediment control plan requirements and gas leasehold being described in the erosion and operator or lessee, in the even more coal seams; (4) The owned work, if the surface transpoundment or pit as described water well, spring or provide water for consumptoroposed well work activity subsection (b) of this section for covision of this article to the Code R. § 35-8-5.7.a requirements of the surface of the surfa	red by section seven of this hich the well is or is proposed which the well is or is proposed by the proposed of sediment control plan subment the tract of land on which where of record of the surfact is to be used for the place ribed in section nine of this water supply source located in by humans or domestic is to take place. (c)(1) If more hold interests in the lands, and to be maintained pursuant the contrary, notice to a lien have, in part, that the operator water subject to notice and water supply source to a lien have.	article, and the well placed to be located; (2) To well work, if the surfamitted pursuant to subset the well proposed to be tract or tracts overly ment, construction, er article; (5) Any surfact within one thousand animals; and (6) The core than three tenants the applicant may sent to section eight, article holder is not notice to shall also provide the core testing as provide.	re confirmation, copies of the application, the erosion at to each of the following persons: (1) The owners the owners of record of the surface tract or tracts over tract is to be used for roads or other land disturbated to be drilled is located [sic] is known to be underlaining the oil and gas leasehold being developed by the alargement, alteration, repair, removal or abandonme the owner or water purveyor who is known to the application of any natural gas storage field within which in common or other co-owners of interests described to the documents required upon the person described the one, chapter eleven-a of this code. (2) Notwithsta a landowner, unless the lien holder is the landowner well Site Safety Plan ("WSSP") to the surface owned in section 15 of this rule. Plat Notice is hereby provided to:	of record of erlying the nce as owner, by one or e proposed ent of any licant to h is used to h the l in d in the unding any e. W. Va. er and any
		☑ COA	LOWNER OR LESSEE	
			Eastern Associated Coal Corporation 500 Lee Street East, Suite 202	
Address:		Address	Charleston, WV 25301	
Name:		☑ COA	LOPERATOR	
Address:			Eastern Associated Coal Corporation	
CLIDEACE OWNER(a)	(Road and/or Other Disturb		500 Lee Street East, Suite 202	
	And the second s		Charleston, WV 25301 FACE OWNER OF WATER WELL	
Name:Address:			R WATER PURVEYOR(s)	
			it willer on the rongs	
Name:		Address	:	
Address:				20
CLIDEACE OUNTEDAY	(Immanualments on Disa)	Manage	RATOR OF ANY NATURAL GAS STORAGE F	ELD
SURFACE OWNER(s) (Name:		
Name:Address:		Address	Received	
7000		*Please	attach additional for Siffeces Say Oil & Gas	0
			Seek 1	4.7

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WW-6A (9-13)

API NO. 47-			
OPERATOR WELL	NO.	UNB 211	
Well Pad Name: UNE	3		

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice sh	all be provided no later t	han the filing date of permit application.	
Date of Notice: 9/10/2015 Date Pern	nit Application Filed: 9/	11/2015	
Notice of:	at representation rineu.		
Notice of		~	
PERMIT FOR ANY	CERTIFICATE OF AI	PPROVAL FOR THE	
WELL WORK	CONSTRUCTION OF	F AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West V	Virginia Code § 22-6A-	10(b)	
☐ PERSONAL ☐ REGIST	TERED MET	HOD OF DELIVERY THAT REQUIRES A	
SERVICE MAIL	REC	EIPT OR SIGNATURE CONFIRMATION	
the surface of the tract on which the well oil and gas leasehold being developed by described in the erosion and sediment comperator or lessee, in the event the tract more coal seams; (4) The owners of recovered well work, if the surface tract is to be us impoundment or pit as described in sect have a water well, spring or water supply provide water for consumption by human proposed well work activity is to take plauses to the section (b) of this section hold interest records of the sheriff required to be main provision of this article to the contrary, and Code R. § 35-8-5.7. a requires, in part, to	Il is or is proposed to be logy the proposed well work, ontrol plan submitted purs of land on which the well ord of the surface tract or led for the placement, consion nine of this article; (5) y source located within on as or domestic animals; as ace. (c)(1) If more than the lasts in the lands, the applicantained pursuant to section to the operator shall also that the operator shall also	If the well plat to each of the following persons: (1) The owners of receated; (2) The owners of record of the surface tract or tracts overlying if the surface tract is to be used for roads or other land disturbance trained to subsection (c), section seven of this article; (3) The coal own proposed to be drilled is located [sic] is known to be underlain by our tracts overlying the oil and gas leasehold being developed by the prostruction, enlargement, alteration, repair, removal or abandonment of Any surface owner or water purveyor who is known to the applicant the thousand five hundred feet of the center of the well pad which is the determinant of the operator of any natural gas storage field within which the rece tenants in common or other co-owners of interests described in the east may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding of notice to a landowner, unless the lien holder is the landowner. We provide the Well Site Safety Plan ("WSSP") to the surface owner and gas provided in section 15 of this rule.	ing the as ner, one or opposed of any on to used to the ng any . Va.
☐ Application Notice ☐ WSSP No	tice E&S Plan Notic	ce Well Plat Notice is hereby provided to:	
SURFACE OWNER(s)		COAL OWNER OR LESSEE Name: Ark Land Company Address: 114 Miley Drive, Sitte 8	
Name:		Name: Ark Land Company	
Address:			
Name at		Charleston, WV 26311	
Name:		COAL OPERATOR	
Address:		Name:Address:	
SURFACE OWNER(s) (Road and/o	or Other Disturbance)	Audicost	
Name:		☐ SURFACE OWNER OF WATER WELL	
Address:		AND/OR WATER PURVEYOR(s)	
		Name:	
Name:		Address:	
Address:			_
- CUREACE OUNTERAND	D'an	OPERATOR OF ANY NATURAL GARAGEFIEL	D
SURFACE OWNER(s) (Impoundments) Name:		Name: Office of ∩il % Ga	•
Address:		*Please attach additional forms if necessary 1 1 2015	
		THEASE ARREST ADDITIONAL TOTALS II BECESSARY	

WW-6A	
(8-13)	

API NO. 47-	*		
OPERATOR WE	ELL NO.	UNB 211	
Well Pad Name:	UNB		

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 www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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 of admultiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secreting 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

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(8-13)	

API NO. 47-OPERATOR WELL NO. UNB 211 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 system 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 en 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

Charleston, WV 25304
(304) 926-0450

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

WW-6A (8-13) API NO. 47-__OPERATOR WELL NO. UNB 211
Well Pad Name: UNB

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-Permits/Pages/default.aspx 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.

API NO. 47-OPERATOR WELL NO. UNB 211 Well Pad Name: UNB

Notice is hereby given by:

Well Operator: Mountaineer Keystone, LLC

Telephone: 724-940-1202 Email: amiller@mkeystone.com Address: 6031 Wallace Road Extension, Suite 300

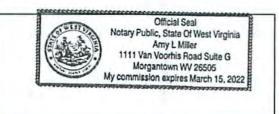
Wexford, PA 15090

Facsimile: 800-428-0981

Oil and Gas Privacy Notice:

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Shen



Subscribed and sworn before me this 10th day of September, 2015

any Suller Notary Public

My Commission Expires 3 15 2022

4709101325

API NO. 47-OPERATOR WELL NO. UNB 211 Well Pad Name; UNB

Notice is hereby given by:

Well Operator: Mountaineer Keystone, LLC

Telephone: 724-940-1202

Email: amiller@mkeystone.com

Address: 6031 Wallace Road Extension, Suite 300

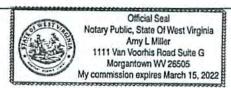
Wexford, PA 15090

Facsimile: 800-428-0981

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7. Slear



Subscribed and sworn before me this 10th day of September, 2015.

Notary Public My Commission Expires 3-15-2022

4709101325

API NO. 47-___OPERATOR WELL NO. UNB 211
Well Pad Name: UNB

Notice is hereby given by:

Well Operator: Mountaineer Keystone, LLC

Telephone: 724-940-1202

Email: amiller@mkeystone.com

Address: 6031 Wallace Road Extension, Suite 300

Wexford, PA 15090

Facsimile: 800-428-0981

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74/20



Subscribed and sworn before me this 10th day of September, 2015

Notary Public My Commission Expires 3-15-2022

4709101325

WW-6A (8-13)

API NO. 47-___OPERATOR WELL NO. UNB 211
Well Pad Name: UNB

Notice is hereby given by:

Well Operator: Mountaineer Keystone, LLC

Telephone: 724-940-1202

Email: amiller@mkeystone.com

Address: 6031 Wallace Road Extension, Suite 300

Wexford, PA 15090

Facsimile: 800-428-0981

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Official Seal
Notary Public, State Of West Virginia
Amy L Miller
1111 Van Voorhis Road Suite G
Morgantown WV 26505
My commission expires March 15, 2022

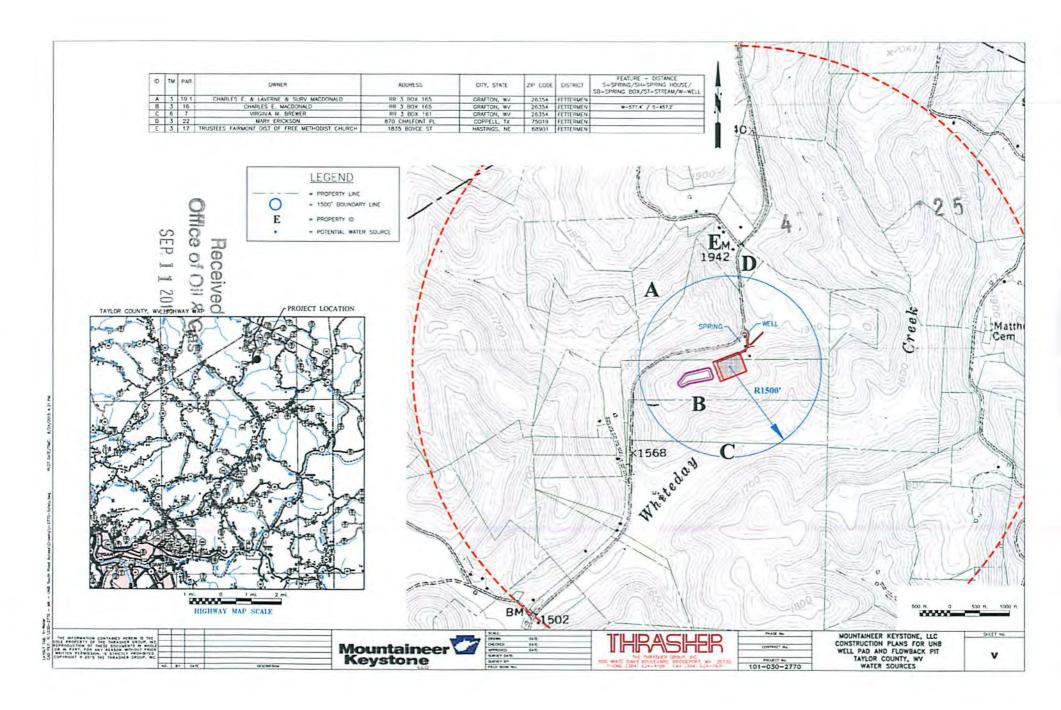
Subscribed and sworn before me this 10th day of September, 2015

any Stuller

Notary Public

My Commission Expires 3-15-2022

4709101325



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

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Tim Date of Not	e Requirement: tice: 08/19/2015	Notice shall be	provided : Date Pe	at least TEN (10) day	s prior to filing	a pe	rmit	appl 20	icati	ion.	~	_
Delivery me	ethod pursuant	to West Virgin	ia Code §	22-6A-16(b)	47	0 0	1 1	n	4	Lay	_	
☐ HAND		CERTIFIED M	TAIL			0 0		U	1	5	2	5
DELIV		RETURN REC		OHERTED								
drilling a ho of this subse subsection m	rizontal well: P ction as of the d ay be waived in	rovided, That note the safe the notice was writing by the safe the notice was writing by the safe the	orface ow office given as provided ourface ow	ays prior to filing a p ner notice of its inter a pursuant to subsect d to the surface own ner. The notice, if re address of the operate	nt to enter upon ion (a), section er: Provided, he equired, shall in	the s ten o	urfa f thi er, T	s art	vner icle he n	's lar satisf otice	ies req	or the purpose of the requirements uirements of this
Notice is he	ereby provided	to the SURF	ACE/OV	VNER(s):								
Name: Charles Address: RR			_	Name:								
	ton, WV 26354		-	Addres	s:							
State: County: District:	West Virginia Taylor	ne purpose or dr	ming a no	UTM NAD 8	Easting:	4365	882.6 5462.					
	Fetterman			Public Road		Rt. 1	119					
Quadrangle: Watershed:	Gladesville 7.5' White Day Creek			Generally use	ed farm name:	Cha	rles E	. Mac	Dona	d		
Pursuant to Nacsimile num related to hor	izontal drilling	ode § 22-6A-16 nic mail addres	from the	notice shall include operator and the ope Secretary, at the W 804-926-0450) or by	rator's authoriz	ed re	pres	enta	tive.	Add	litio	nal information
Notice is he	reby given by:	retone II C		Authorized	Damas and all							
	CONTRACTOR CONTRACTOR	ad Extension, Suite	200	Address:	Representative	-		Skee		-		
	DOD I TRANSCE PO		300	Address:		_		ession	al Pla	ice, Su	ite 2	00
	-											
Address:	Wexford, PA 150			Talanhana				ort, W		330		
Address:	Wexford, PA 150 724-940-1202	90		Telephone:		72	4-940	-1205				
Address: Felephone: Email:	Wexford, PA 150 724-940-1202 amiller@mkeysto	90		Email:		72 ns	4-940 keen	0-1205 @mke		330 e.com		
Address:	Wexford, PA 150 724-940-1202	90			Recei	72 ns	4-940 keen(0-428	-1205				

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.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice T Date of	Time R Notice	Requirement: notice shall be property of the p	rovided ne Permit A	o later than the filin pplication Filed: 09	g date of permi	t application.
Delivery	meth	od pursuant to West Virginia	Code §	22-6A-16(c)		
		ED MAIL		HAND		
RI	ETUR	N RECEIPT REQUESTED		DELIVERY		
return re the plans required drilling of damages (d) The r of notice	ceipt rened op to be pof a ho to the to the notices	equested or hand delivery, give eration. The notice required provided by subsection (b), sec- prizontal well; and (3) A propo- surface affected by oil and gas required by this section shall be by provided to the SURFACE	the surfa by this su tion ten o posed surfa operation be given to	ace owner whose land absection shall include this article to a surface use and compens to the extent the dother surface owner.	d will be used for ide: (1) A copy face owner whose sation agreement amages are com	ication, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, step in the records of the sheriff at the time
Name: Ch	RR 3 Bo		ar ar are r	Name: Addres		
Name: Ch Address: Grafton, W Notice is Pursuant operation State:	hereb to Wes	y given: st Virginia Code § 22-6A-16(c) e surface owner's land for the possessivity.), notice is	Name: Addres s hereby given that t f drilling a horizont	s:he undersigned all well on the tra	well operator has developed a planned act of land as follows: 590882.67
Name: Chaddress: Grafton, W Notice is Pursuant operation State: County:	hereb to Wes	MacDonald ox 165 y given: st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia faylor), notice is	Name: Addres s hereby given that t f drilling a horizont: UTM NAD 8	he undersigned of well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 590882.67 4365462.07
Name: Challen Address: Grafton, W Notice is Pursuant operation State: County: District:	RR 3 Bov 26354 hereb to West on the way of the period of	y given: st Virginia Code § 22-6A-16(c) e surface owner's land for the post Virginia eaylor eetterman), notice is	Name: Addres s hereby given that t f drilling a horizont: UTM NAD 8	he undersigned of all well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 590882.67 4365462.07 Rt. 119
Name: Ch Address: Grafton, W Notice is Pursuant	hereb to West on th	MacDonald ox 165 y given: st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia faylor), notice is	Name: Addres s hereby given that t f drilling a horizont: UTM NAD 8	he undersigned of well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 590882.67 4365462.07
Name: Chaddress: Grafton, W Notice is Pursuant operation State: County: District: Quadrang Watershe This Not Pursuant to be pro norizonta surface at information eadquart gas/pages	hereb to Wes on th Via gle: Get Sha to Wesl; ffected on relaters, lo	y given: st Virginia Code § 22-6A-16(c) e surface owner's land for the possibility of the), notice is purpose of), this not b) to a size and con the extent	Name: Address s hereby given that to f drilling a horizonta UTM NAD to the public Road Generally us to the public Road Generally us to the damages are contend from the Secre	he undersigned of the undersigned of the undersigned of the transport of the undersigned	well operator has developed a planned act of land as follows: 590882.67 4365462.07 Rt. 119
Name: Chaddress: Grafton, W Notice is Pursuant operation State: County: District: Quadrang Watershe This Not Pursuant to be pro norizonta surface at information eadquart gas/pages	hereb to Wes on th Via gle: Get Sha to Wesl; ffected on relaters, lo	y given: st Virginia Code § 22-6A-16(c) e surface owner's land for the possibility of the), notice is purpose of), this not b) to a size and con the extent	Name: Address s hereby given that to f drilling a horizonta UTM NAD to the public Road Generally us to the public Road Generally us to the damages are contend from the Secre	he undersigned all well on the tra Basting: Northing: Access: ed farm name: A copy of this e land will be understand and the containing and the containing and the containing at the WV (304-926-0450)	well operator has developed a planned act of land as follows: 590882.67 4365462.07 Rt. 119 Charles E. MacDonald code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Name: Chaddress: Grafton, W Notice is Pursuant operation State: County: District: Quadrang Watershe This Not Pursuant to be pro norizonta surface as nformationeadquart	hereb to Wes on th gle: Ge Sha to Wes vided l well; ffected on relaters, lo	y given: st Virginia Code § 22-6A-16(c) e surface owner's land for the power virginia faylor fetterman Stadesville 7.5' White Day Creek all Include: st Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-10(c) and (3) A proposed surface us by oil and gas operations to the stated to horizontal drilling may be to the stated at 601 57th Street, SE, lt.aspx.), notice is purpose of), this not b) to a size and con the extent	Name: Addres s hereby given that t f drilling a horizont: UTM NAD a Public Road Generally us ice shall include: (1 urface owner whose npensation agreement the damages are contend from the Secre eston, WV 25304	he undersigned all well on the tra Basting: Northing: Access: ed farm name: A copy of this e land will be understand and the containing and the containing and the containing at the WV (304-926-0450)	well operator has developed a planned act of land as follows: 590882.67 4365462.07 Rt. 119 Charles E. MacDonald code section; (2) The information required ased in conjunction with the drilling of a coffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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SEP 1 1 2015

WW-6RW (1-12)

MOUNTAINEER KEYSTONE LLC-ERIC LANTZ 65 PROFESSIONAL DLACE BRIDGEFORT, WV 26330- OPERATOR WELL NO. 211

API NO. 47- 091

Well Pad Name: UNB

11-472

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL LOCATION RESTRICTION WAIVER

The well op	erator, Mountaineer Keystone, LLC is appl	ying for a permit from the	State of West Virg	ginia to conduct oil or gas well
	e be advised that well work permits are valid for	or twenty-four (24) months		
Pursuant to any existing located with larger used dwellings or provided in s article was p by written of clerk of the variance by to or practices conditions the	on Restrictions West Virginia Code § 22-6A-12(a), Wells may water well or developed spring used for hum in six hundred twenty-five feet of an occupied to house or shelter dairy cattle or poultry hugagicultural buildings that existed on the date section ten of this article or a notice of intent to rovided, whichever occurs first, and to any dwonsent of the surface owner transmitted to the county commission for the county in which so the secretary from these distance restrictions up to be employed during well site construction, are department requires to ensure the safety and rance, bonding and indemnification, as well as	nan or domestic animal co dwelling structure, or a busbandry. This limitation a notice to the surface ow drill a horizontal well as pelling under construction per department and recorded such property is located. From submission of a plan welling and operations. In protection of affected pers	insumption. The equilding two thousands applicable to the mer of planned environment of the mer of planned environment of the mer of	enter of well pads may not be and five hundred square feet or lose wells, developed springs, try for surveying or staking as tion (b), section sixteen of this This limitation may be waived rty records maintained by the ell operator may be granted a e sufficient measures, facilities anted, shall include terms and
include insur	보다가 되어 있어요? 그런 그런 사이 얼마나 되는 아니라 아니라 아니라 아니라 가지 않아 있다.	VAIVER		
I Charles E MacDor	naid and Laverne M. MacDonald , hereby state that I have read		s Named on Page	WW-6A and the associated
	attachments consisting of pages one (1) through the well plat, all for proposed well work on the West Virginia Taylor Fetterman		590882	. 67
Quadrangle:	Gladesville	Generally used farm na		
Watershed:	White Day Creek	a controller & tracks and a	-	
	that I have no objection to the planned work one materials and I therefore waive all well site			
	E RESTRICTIONS BEING WAIVED	FOR EXE	CUTION BY A	NATURAL PERSON
*Please chec	k all that apply	Signature:	holes Mes	Baral Lavernell Molla
■ EXISTI	NG WATER WELLS			and Laverne M. MacDonald
E LAISTI	NG WATER WEELS		may 27,	
DEVEL	LOPED SPRINGS	Company:		CORPORATION, ETC.
DWEL	LINGS	By:		Georgianna Thompson
- DWEL	LINGS	Its:		TAYLOR County 02:30:23 PM
AGRIC	ULTURAL BUILDINGS	Signature:		Instrument No 2015014180
		Date:	211	Date Recorded 08/31/2015
Well Operato	or: Mountaineer Keystone, LLC	Signature:	15/2	- Document Type MTS
By: Nathan Ske		Telephone: 724-940	-1205	Pages Recorded 1
Its: Designated	Agent			Book-Page 11-472
				The state of the same

OFFICIAL SEAL Notary Public, State Of West Virginia COLE DODD 730 Maple Lake Bridgeport, WV 26330

Subscribed and sworn before me this 27

Kecording Fee \$5.00 day of AdMAMal 2015.00

My Commission Expires

COLE DODO

SANUARY 13, COZOTICE OF Oil & Gas

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OPERATOR WELL NO.	UNB 211
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.

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 any 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

State:	West Virginia	UTM NAD 83		590882.67		
County:	Taylor		Northing:	4365462.07		
District: Fetterman		Public Road Ac		US 119		
Quadrangle: Watershed:	Gladesville White Day Creek	Generally used	farm name:	MacDonald		
*Blassa shool	7 =	FO	D EVECUT	ION BY A NATURAL PERSON		
*Please checi	k the box that applies					
SURFA	CE OWNER	Sig	nathrocerles	MacPinal La llerne M Macton		
■ SURFACE OWNER (Road and/or Other Disturbance)			Print Name: CHARLES EMACDORAGE Date: 9/11/5			
	CE OWNED (Immoundments/Dita)	1 1103		ION BY A CORPORATION, ETC.		
■ SURFA	CE OWNER (Impoundments/Pits)		REALUI	ION BI A CORPORATION, ETC.		
	OWNER OR LESSEE	Cor	mpany:			
□ COAL (Cor	mpany:			
□ COAL C	OWNER OR LESSEE	Cor By: Its:	mpany:			

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Earl Ray Tomblin Governor

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

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 470070,3 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,

Gary K. Clayton

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

> Received Office of Oil & Gas

> > SEP 1 1 2015

Cc: Amy L. Miller

Mountaineer Keystone, LLC

CH, OM, D-4

File



		UNB 211				
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	HCL-7.5%	7647-01-0			

PROTECT LOCATION PROTECT LOCATION PROTECT LOCATION



CENTER OF BELL PAD LATI 39.434645° LONG: 79.540947° WYES - NY N.349521.512 ft WYES - NY F. 18.43954.803 ft UTM-17 N.545478.824 m UTM-17 E. 590888.436 m CENTER OF FLOWRACE PIT LAT: 39-438030° LONG: 79-345807° WYE3 - NF N 340307,755 B WYE3 - NF E 1842582.971 B UTM - 17 N 4305429.422 m UTM - 17 E 59072.433 m BEGINNING OF PROPOSED ACCESS FOAD LAT. 39-435776* LONG: 79-9341877 WY33 - SF N 341144-872 h WY33 - SF E 1343326-795 ft UTM - 17 N 436698-755 m UTM - 17 E 59094131 m

MOUNTAINEER KEYSTONE, LLC

UNB WELL PAD AND
FLOWBACK PIT

FETTERMEN DISTRICT, TAYLOR COUNTY, WV AUGUST 2015

TOP HOLE COORDINATES

Well	Lathude	WVX3-N Longitude	Worthing	terring	Worthing	tacing
211	N35.433917	M SA AVERTE.	140465 194 N	1843099.583 h	4363462.07 m	590E82 67 m
717	N39 433779"	W 79 54512E	\$40471.521 ft	ERRELLA DAR O	4365463.75 m	\$ 904.66.91 m
217	N39.432547"	W 79.941875*	\$404// 189 ft	3843127,932 M	4363465.50 =	\$90606.17 m
714	NH GHET	W.75343830"	#40487 707 M	1045142.643.6	434546722 @	3.70195.35 in
115	W39.833573"	W 75 541753"	PASSER VELT	1941135.797 E	4305461 25.=	5.80898.52 =

	DISTURI	MANCESU	MMARY		
Fragerty Owner (Tas Mag / Fartel)	Access fixed Disturbance	Shell Pad Delurbance	Fireback Pa Disturbance	Topseli Stockpile Diterurbanes	Total Disturbance
Charles MacDonald (3/18)	1.52	3.90	4.60	130	16.10
Total Disturbance	3.30	5.60	4.60	2.50	16.38



WHITEDAY CREEK WATERSHED

FEMA FLOOD MAP
TAYLOR COUNTY, WV
MAP: \$4091
PANEL: 0095 D
SITE OUTSIDE OF MAPPED FLOOD PLAIN

OFFICE: 304-624-4168
EMAIL: bmessenger@thrashereng.com

MOUNTAINEER KEYSTONE, LLC
AMY MILLER
OFFICE: 304-848-9136
EMAIL: amiller@mkeystone.com



API#9101325



SHEET INDE

210.51	DESCRIPTION
1	COVER
2	EXISTING CONDITIONS
3	OVERALL SITE PLAN
4	ACCESS ROAD PLAN AND PROFILE
5	ACCESS ROAD SECTIONS
6	FLOWBACK FIT PLAS
7.	WELL PAD PLAN
X	FLOWBACK PIT AND WELL PAD PROFILE
	FLOWBACK PIT AND WELL PAD SECTIONS
10	STAGING AREA PLAN
11	TOPSOIL STOCKPILE PLAN
42	TOPSOIL STOCKPILE PROFILE AND SECTIONS
15-15	GEOMETRIC LAYOUTS
16	RECLAMATION PLAN
1.7	GENERAL NOTES
13.	QUANTITY SUMMARY
19	TYPICAL SECTIONS
20-21	DETAILS:



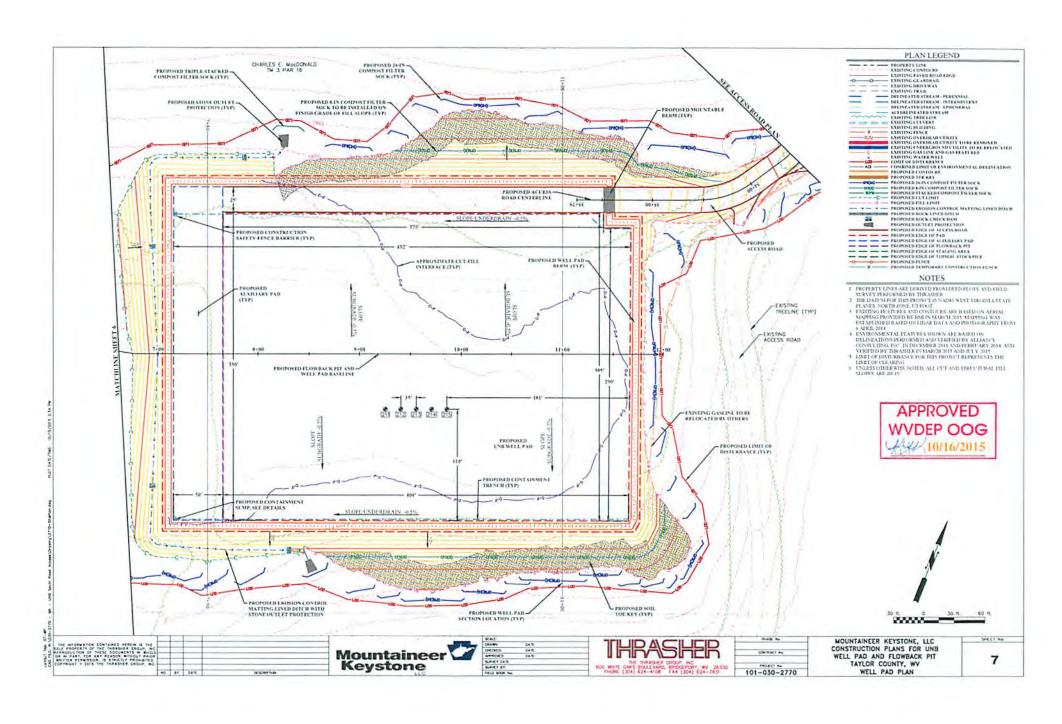
100	APPROVED FOR PERMITS	DATE: 08/31/15	BY: RBM
	APPROVED FOR BID	DATE:	BY:
	APPROVED FOR CONSTRUCTION	DATE:	BY:

	SHEETS	By	DATE	DESCRIPTION
)	1, <u>1</u> , <u>1</u> , <u>4</u> , 17, 4 , 22	liv	10/15/15	ADDRESSED WIDER COO PERMIT COMMENTS ADDED DISTURBANCE SUMMARIES, DIMENSION TO THE RESOURCE; CHEVEN LABELS, REVISED SUMM DETAL ADDED LIFE LINE NOTE.

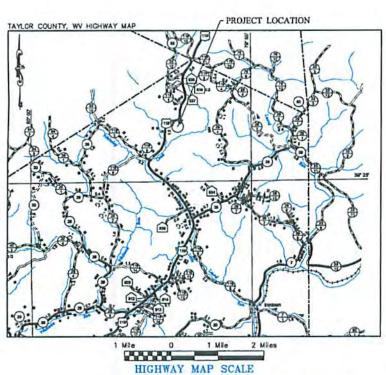


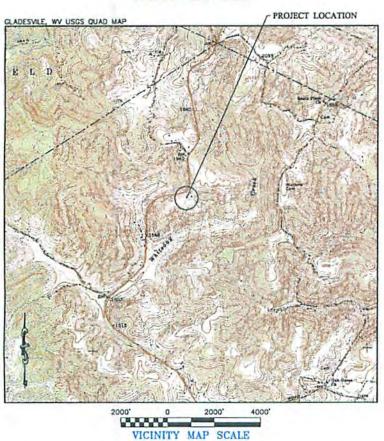
THE THRASHER GROUP, INC. 600 WHITE DAKS BOULEVARD - BRIDGEPORT, WV 26330

the apprentice contains effect in the sold deportable on the librature should be defrequented of these sold-weight in made and the second set in part, for any stable princip range entities required to the stable production.



CAD





CENTER OF WELL PAD LAT: 39.434063° LONG: 79.943997° WV83 - NF N 340521.512 ft WV83 - NF E 1843094.803 ft UTM - 17 N 4365478.824 m UTM - 17 E 590880.830 m

CENTER OF FLOWBACK PIT
LAT: 39.433634°
LONG: 79.945807°
WV83 - NF N 340367.755 ft
WV83 - NF E 1842581.971 ft
UTM - 17 N 4365429.422 m
UTM - 17 E 590725.633 m

BEGINNING OF PROPOSED ACCESS ROAD LAT: 39,435776° LONG: 79,943187° WV83 - NF N 341144,072 ft WV83 - NF E 1843326.793 ft UTM - 17 N 4365669.755 m UTM - 17 E 590948,313 m

MOUNTAINEE CONSTRUCT UNB WI FLOV FETTERMEN DISTR AU

Well WV83-N WV83-N Longitude
211 N39.433912' W79.943576'
212 N39.433779' W79.943879'
213 N39.433942' W79.943879'
214 N39.433957' W79.943830'

215

N 39.433973" W 79.943781"

TOI



WHITEDAY CREEK WATE

FEMA FLOOD MAP TAYLOR COUNTY, W MAP: 54091 PANEL: 0095 D SITE OUTSIDE OF MAPPED FL

ER KEYSTONE, LLC

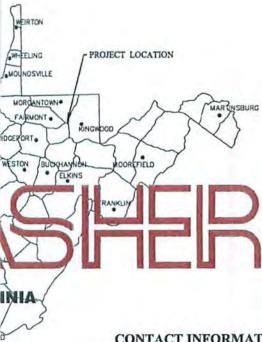
ION PLANS FOR THE

ELL PAD AND VBACK PIT

ICT, TAYLOR COUNTY, WV **GUST 2015**

HOLE COORDINATES

WV83-N Northing	WV83-N Easting	UTM 83-17 Northing	UTM 83-17 Easting			
340466.184 ft	1843099.983 ft	4365462.07 m	590882.67 m			
340471.621 ft	1843114.048 ft	4365463,76 m	590885.91 m			
340477.189 ft	1843127.892 ft	4365465.50 m	590806.17 m			
340482.702 ft	1843141.841 ft	4365467.22 m	590895.35 m			
340488.201 ft	1843155.797 ft	4365469.05 m	590899.52 m			



CONTACT INFORMATION

THE THRASHER GROUP, INC. R. BRAD MESSENGER, PE

OFFICE: 304-624-4108 EMAIL: bmessenger@thrashereng.com

MOUNTAINEER KEYSTONE, LLC

AMY MILLER

OFFICE: 304-848-9130

EMAIL: amiller@mkeystone.com



Limenth L. Lynck

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SHEET	DESCRIPTION			
1	COVER			
2	EXISTING CONDITIONS			
3	OVERALL SITE PLAN			
4	ACCESS ROAD PLAN AND PROFILE			
5	ACCESS ROAD SECTIONS			
6	FLOWBACK PIT PLAN			
7	WELL PAD PLAN			
8	FLOWBACK PIT AND WELL PAD PROFILE			
9	FLOWBACK PIT AND WELL PAD SECTIONS			
10	STAGING AREA PLAN			
11	TOPSOIL STOCKPILE PLAN			
12	TOPSOIL STOCKPILE PROFILE AND SECTIONS			
13-15	GEOMETRIC LAYOUTS			
16	RECLAMATION PLAN			
17	GENERAL NOTES			
18	OUANTITY SUMMARY			
19	TYPICAL SECTIONS			
20-23	DETAILS			



Received /31/16ffice of Oil & Gas SEP 1 1 2019

DATE: 08/31/15 APPROVED FOR PERMITS BY: RBM APPROVED FOR BID DATE: BY: APPROVED FOR CONSTRUCTION DATE:

REVISED SHEETS	BY	DATE	DESCRIPTION

PHONE (304) 624-7831 (304) 624-4108

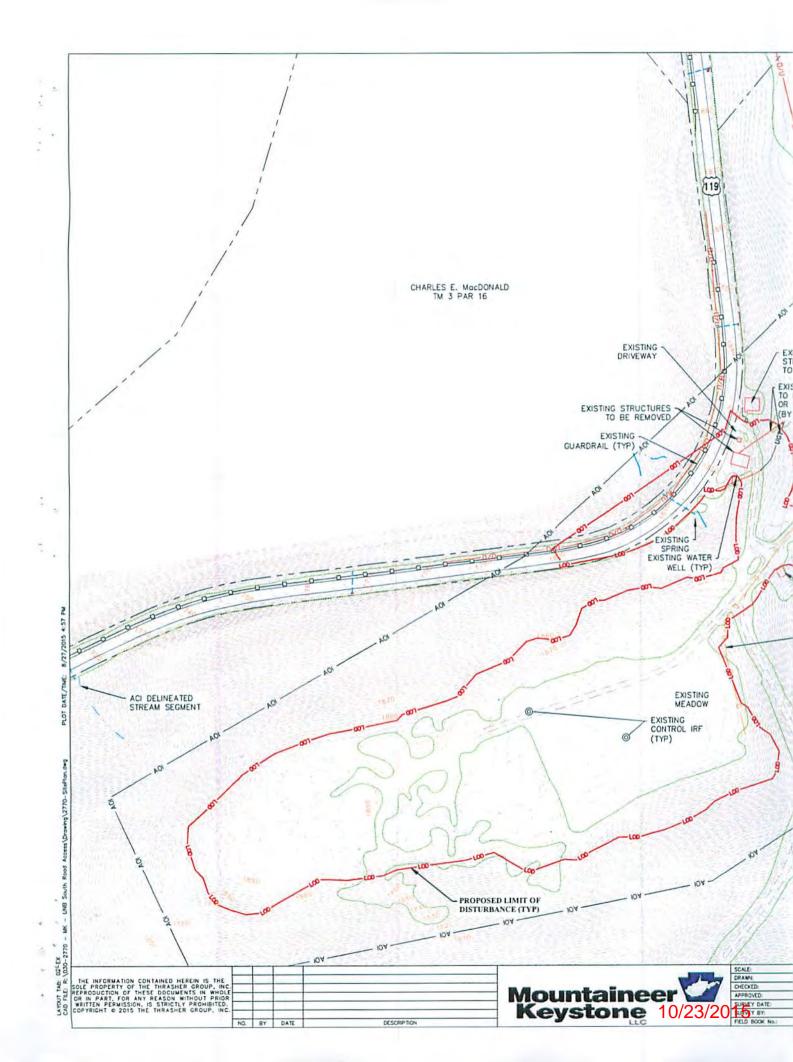
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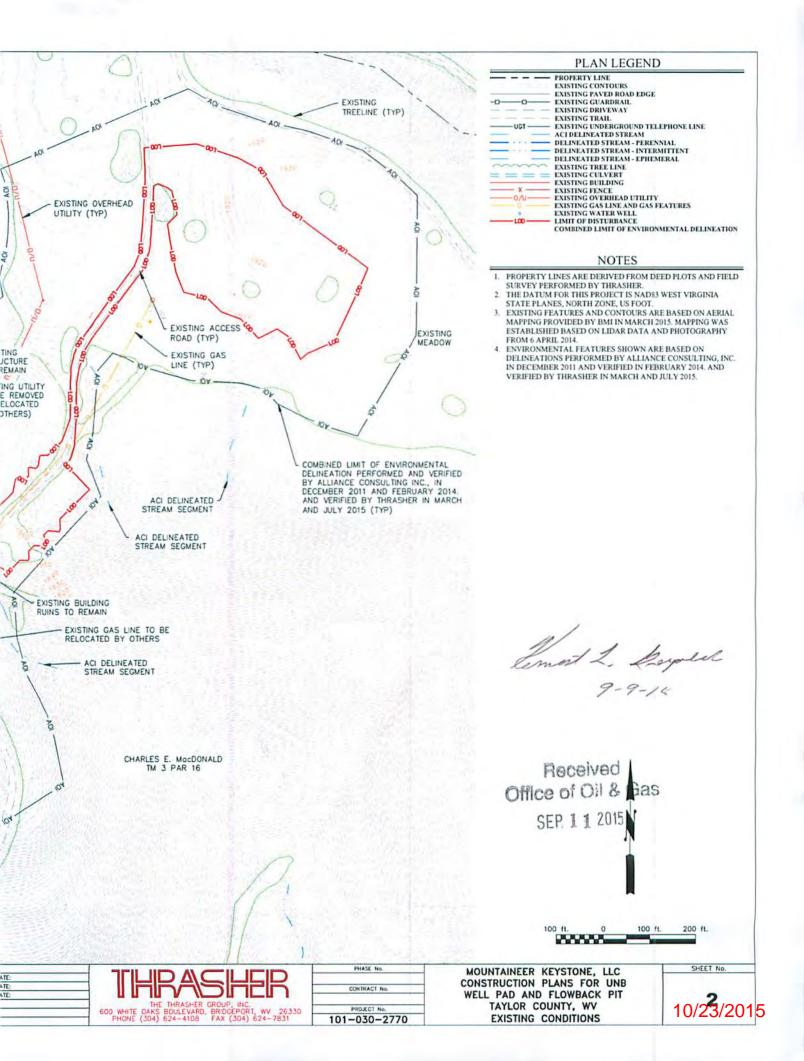
THE THRASHER GROUP, INC.

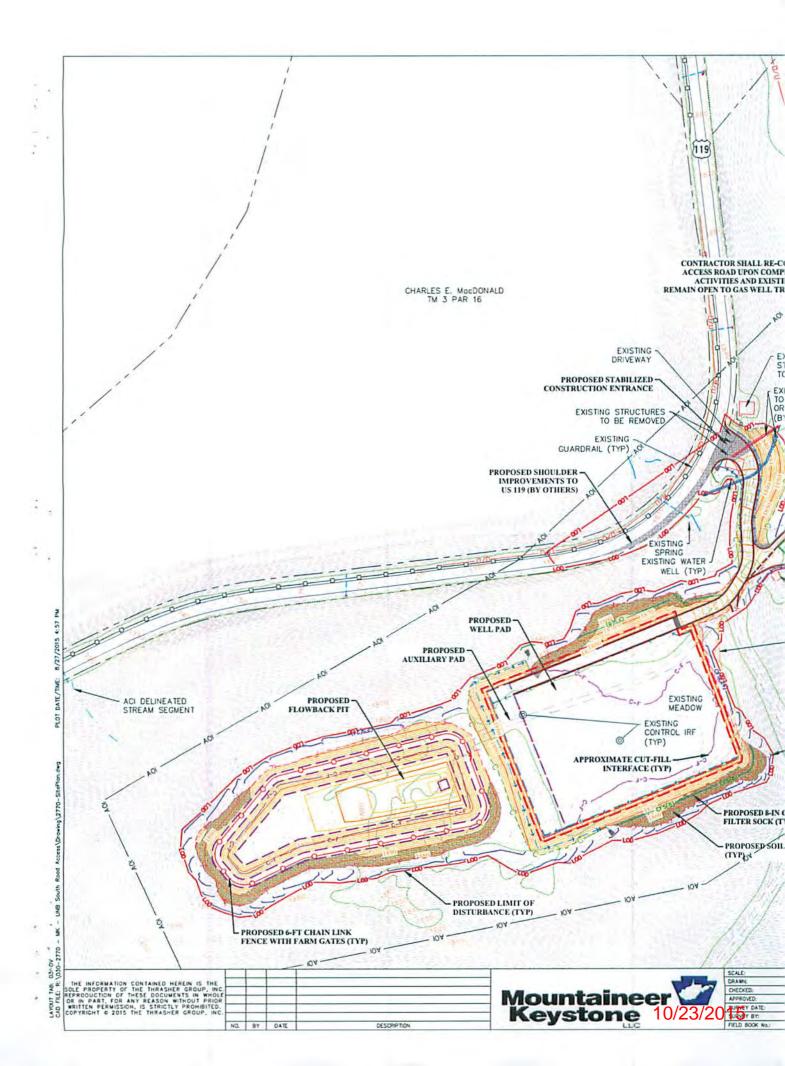
600 WHITE OAKS BOULEVARD - BRIDGEPORT, WV 26330 10/23/2015

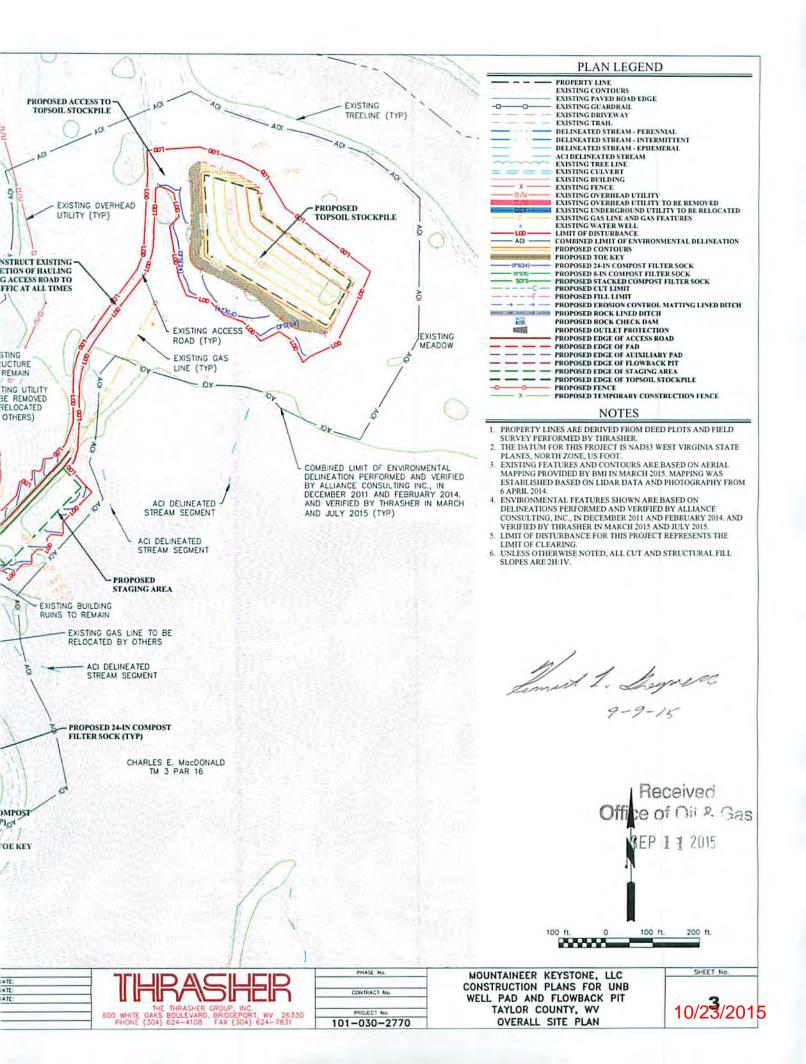
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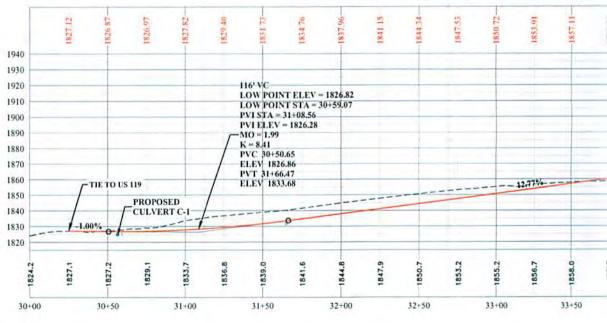
OD PLAIN











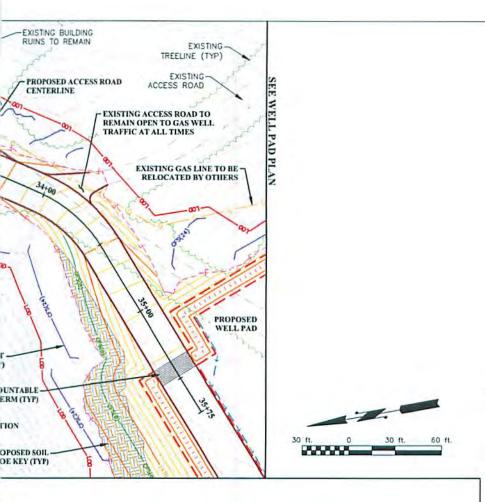
DESCRIPTION

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NO. BY DATE

Mountaineer Keystone 10/23/20

FIELD BOOK No.



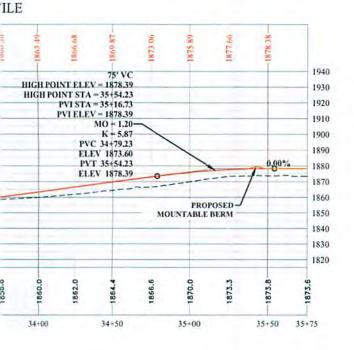
PLAN LEGEND PROPERTY LINE EXISTING CONTOURS EXISTING PAVED ROAD EDGE EXISTING GUARDRAIL EXISTING DRIVEWAY EXISTING TRAIL DELINEATED STREAM - PERENNIAL DELINEATED STREAM - INTERMITTENT DELINEATED STREAM - EPHEMERAL ACI DELINEATED STREAM EXISTING TREE LINE EXISTING CULVERT EMISING CULVERY
EXISTING BUILDING
EXISTING FENCE
EXISTING OVERHEAD UTILITY
EXISTING OVERHEAD UTILITY TO BE REMOVED
EXISTING UNDERGROUND UTILITY TO BE RELOCATED
EXISTING CAS LINE AND GAS FEATURES
EXISTING WATER WELL - x -LIMIT OF DISTURBANCE COMBINED LIMIT OF ENVIRONMENTAL DELINEATION PROPOSED CONTOURS PROPOSED TOE KEY ADI PROPOSED 24-IN COMPOST FILTER SOCK PROPOSED 8-IN COMPOST FILTER SOCK PROPOSED STACKED COMPOST FILTER SOCK PROPOSED CUT LIMIT CF2(24) SOTS PROPOSED FILL LIMIT
PROPOSED EROSION CONTROL MATTING LINED DITCH
PROPOSED ROCK LINED DITCH PROPOSED ROCK CHEECK DAM
PROPOSED OUTLET PROTECTION
PROPOSED EDGE OF ACCESS ROAD
PROPOSED EDGE OF PAD
PROPOSED EDGE OF AUXILIARY PAD
PROPOSED EDGE OF FLOWBACK PIT PROPOSED FDGE OF STACING AREA PROPOSED EDGE OF STAGING AREA
PROPOSED EDGE OF TOPSOIL STOCKPILE
PROPOSED FENCE
PROPOSED TEMPORARY CONSTRUCTION FENCE

PROPERTY LINES ARE DERIVED FROM DEED PLOTS AND FIELD

- SURVEY PERFORMED BY THRASHER.
- THE DATUM FOR THIS PROJECT IS NAD83 WEST VIRGINIA STATE

NOTES

- PLANES, NORTH ZONE, US FOOT. EXISTING FEATURES AND CONTOURS ARE BASED ON AERIAL MAPPING PROVIDED BY BMI IN MARCH 2015. MAPPING WAS ESTABLISHED BASED ON LIDAR DATA AND PHOTOGRAPHY FROM 6 APRIL 2014.
- ENVIRONMENTAL FEATURES SHOWN ARE BASED ON DELINEATIONS PERFORMED AND VERIFIED BY ALLIANCE CONSULTING, INC., IN DECEMBER 2011 AND FEBRUARY 2014. AND VERIFIED BY THRASHER IN MARCH 2015 AND JULY 2015.
- LIMIT OF DISTURBANCE FOR THIS PROJECT REPRESENTS THE LIMIT OF CLEARING.
- UNLESS OTHERWISE NOTED, ALL CUT AND STRUCTURAL FILL SLOPES ARE 2H:1V.



PROFILE LEGEND

EXISTING GROUND PROPOSED GRADE 0 PROPOSED CULVERT



THE THRASHER GROUP, INC. 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 PHONE (304) 524-4108 FAX (304) 624-7831

PHASE No CONTRACT No. 101-030-2770

MOUNTAINEER KEYSTONE, LLC CONSTRUCTION PLANS FOR UNB WELL PAD AND FLOWBACK PIT TAYLOR COUNTY, WY ACCESS ROAD PLAN AND PROFILE

SHEET No.