



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

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

Monday, February 06, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

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

WEXFORD , PA 15090

Re: Permit approval for 214
47-033-05884-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: 214
Farm Name: LYNCH FARMS, LLC
U.S. WELL NUMBER: 47-033-05884-00-00
Horizontal 6A / New Drill
Date Issued: 2/6/2017

Promoting a healthy environment.

02/10/2017

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

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

1) Well Operator: Mountaineer Keystone, LLC 494501227 Harrison Grant Mount Clare
Operator ID County District Quadrangle

2) Operator's Well Number: 214 Well Pad Name: Tony's Bridge

3) Farm Name/Surface Owner: Lynch Farms, LLC Public Road Access: County Route 25

4) Elevation, current ground: 1141.9' Elevation, proposed post-construction: 1140.8'

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No yes

SDW
11/29/2016

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale 7111.5' (TVD Heel); ~~4211.5~~ (TVD Toe); 100'; 0.5 psi/ft

8) Proposed Total Vertical Depth: 7197'

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 14567'

11) Proposed Horizontal Leg Length: 6835'

12) Approximate Fresh Water Strata Depths: 250'

13) Method to Determine Fresh Water Depths: Offsetting wells reported water depths (033-04454, 033-04455, 033-04558, 033-04692, 033-04775)

14) Approximate Saltwater Depths: 2300'

15) Approximate Coal Seam Depths: Pittsburgh 37.5'

16) Approximate Depth to Possible Void (coal mine, karst, other): None known

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	24"	New	H-40	94#	80'	80'	Grout
Fresh Water	13.375"	New	J-55	54.5#	350'	350'	CTS
Coal							
Intermediate	9.625"	New	J-55	40#	2400'	2400'	CTS
Production	5.5"	New	P-110	20#	14,567'	14,567'	TOC @ 2,250'
Tubing							
Liners							

*SDeW
11/29/2016*

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and grout cement back to surface. The conductor rig will move out and the drilling rig will move in and rig up. The drilling rig will then spud a 17 1/2" 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 1/4" intermediate hole to the programmed depth, run 9 5/8" casing and cement to surface. The rig will then continue to drill a 8 3/4" hole to a designed KOP and then start drilling the curve and lateral section to the programmed total measured depth, run 5 1/2" casing and cement according to the program.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 28.57 acres

22) Area to be disturbed for well pad only, less access road (acres): 5.5 acres

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 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 2,500'; there will be no centralizers from 2,500' 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, and no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 2c250' (+/- 200' above the casing shoe for the 9 5/8") with Type 1 or Class A cement retarder (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixture 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 noticed, 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 will be continuously rotated while pumping 2X bottoms up. We will pull three stands and fill the hole and repeat the vertical section of the well.

*Note: Attach additional sheets as needed.

33-05884

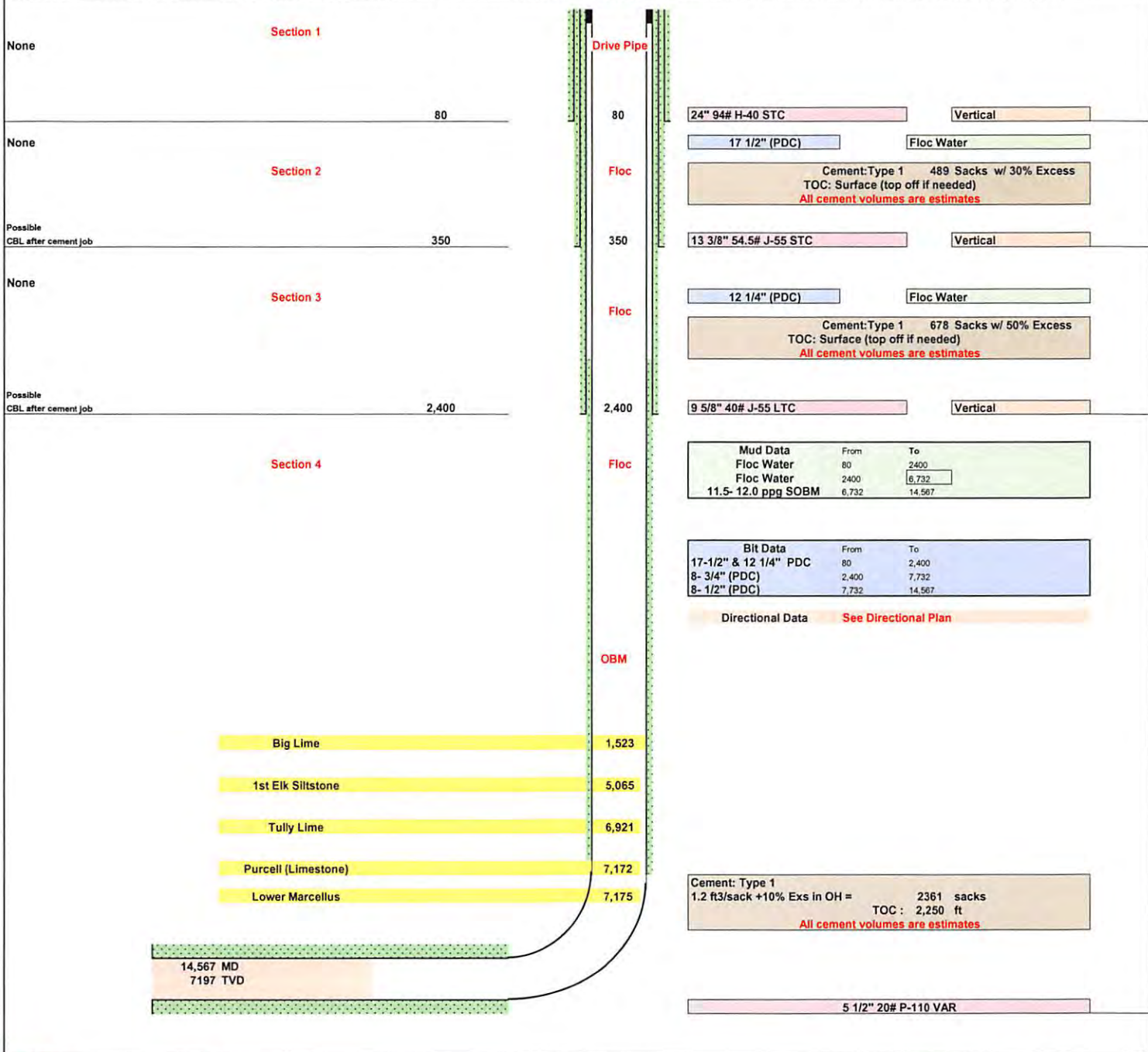


Mountaineer Keystone
 Tony's Bridge 214
 Casing Design
 Directional Plan # 4 (Plan B) ADC

Other Names:	N/A
Surface Location:	TBD
Bottom Hole Location:	TBD
Total Depth:	14,567 MD (ft) 7,197 TVD (ft)

County:	Harrison		
State:	West Virginia		
AFE #:	XX	API #:	XX
RKB:	21		
Ground Level:	1,140		

Lbgs	Significant Formations (TVD)	Depth (ft) MD	Depth (ft) TVD	Hole Size	Casing and Mud Cement	Directional & Surveys Drig /Csq Point
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Revision 1
 Note: Not drawn to scale
 Date Last Revised: 28-Nov-16
 Jarrett Toms

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02/10/2017

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near Mountaineer Keystone hydraulic fracturing in Harrison County, WV prior to hydraulic fracturing at the following MK wells on the Tony's Bridge 214 Pad.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,200' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Balltown formation (approximately 3,930' TVD).

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

1. Communications with Conventional Operators.

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

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

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

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



47 0 3 3 0 8 8 4

2. Reporting

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

WW-9
(4/16)

API Number 47 - 33 - 05884

Operator's Well No. Tony's Bridge 214

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Mountaineer Keystone, LLC OP Code 494501227

Watershed (HUC 10) Brown's Creek of West Fork River Quadrangle Mount Clare

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: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 60 ml

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

*SPDW
11/29/2016*

Will closed loop system be used? If so, describe: Yes, the closed loop system will contain all of the drilling medium and drill cuttings on location to then be taken to landfill. _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. v: freshwater H: synthetic oil based mud

-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, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Amy L. Miller*

Company Official (Typed Name) Amy L. Miller

Company Official Title Regulatory Compliance Specialist

Subscribed and sworn before me this 28th day of November, 2016

Debbie Roupe

Notary Public

My commission expires March 5, 2022



Mountaineer Keystone, LLC

Proposed Revegetation Treatment: Acres Disturbed 7.09 Prevegetation pH 3.13 average

Lime 4 Tons/acre or to correct to pH 6.0-7.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye	40	Swisher Meadow Mix	100
Field Bromegrass	40		
Winter Rye	168		
Winter Wheat	180		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Sue O'Connell

Comments: Pre-seed and mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade E&S where needed per WV DEP E&S Manual, if necessary.

Existing Pad

Title: OOG Inspector

Date: 11/29/2016

Field Reviewed? Yes No

Mountaineer Keystone LLC



SITE SAFETY PLAN

Tony's Bridge 214 WELL PAD

SDW
11/29/2016

**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	Book/Page
*see attached list				

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

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

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

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

Well Operator: Mountaineer Keystone, LLC
 By: Amy L. Miller *amy L Miller* RECEIVED
 Its: Regulatory Compliance Specialist *Office of Oil and Gas*

033-05884

Attachment to WW-6A1, Tony's Bridge 214

Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
00006603 (WVL03130.001) ✓	Almeta L. Dawson and Donald F. Dawson, her husband	Daniel E. Stalnaker, d/b/a CED Energy	0.12500000	1454/1457	100
	Daniel E. Stalnaker, d/b/a CED Energy	Antero Resources Appalachian Corporation		1462/545	
	Antero Resources Appalachian Corporation	PDC Mountaineer, LLC		1498/1315	
00006604 (WVL03130.002) ✓	Patricia A. Kohler, widow	Daniel E. Stalnaker, d/b/a CED Energy	0.12500000	1454/165	100
	Daniel E. Stalnaker, d/b/a CED Energy	Antero Resources Appalachian Corporation		1462/545	
	Antero Resources Appalachian Corporation	PDC Mountaineer, LLC		1498/1315	
00004716 (WVL00767.000) ✓	Michael L. and Lori L. Jackson, h/w	PDC Mountaineer, LLC	0.14500000	1467/5 1575/463	7.46
00006601 (WVL03128.000)	Paul S. Hornor, Wallace B. Gribble, and W. F. Dunkin, as Trustees,	Frank J. Maxwell	0.12500000	621/455	1300
	Frank J. Maxwell and Clara G. Maxwell, his wife	W. Brent Maxwell, Jr.		633/234	
	Frank J. Maxwell, widower, and W. Brent Maxwell, Jr. and Marguerite W. Maxwell, his wife	J. Robert Hornor		712/173	
	J. Robert Hornor and Mary Louise Hornor, his wife	Marguerite L. Baker and Helen Baker Billing		714/574	
	Marguerite L. Baker, single, and Helen Baker Bolling, single	J. Robert Hornor		743/423	
	J. Robert Hornor and Mary Louise Hornor, his wife	Marguerite L. Baker and Helen Baker Billing		757/51	
	Marguerite L. Baker, single, and Helen Baker Bolling, single	J. Robert Hornor		757/34	
	J. Robert Hornor and Mary Louise Hornor, his wife	F. S. Kelly, Jr. and H. Stanley Butterworth and Paul Leman		866/236	
	Frank S. Kelly, Jr.	Corinne Roy Kelly (Executrix)		75/1	
	H. Stanley Butterworth and Paul B. Lemann	Corinne Roy Kelly		959/3	

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	Corinne Roy Kelly, widow, individually and as Executrix of Frank S. Kelly, Jr., deceased, and J. Robert Hornor, ancillary administrator c.t.a Frank S. Kelly, Jr., deceased	Dal-Ken Corporation		992/601	
	Dal-Ken Corporation	Jerry C. Olds		1050/232	
	Jerry C. Olds	J. Robert Hornor		Unrecorded	
	J. Robert Hornor	Stonewall Gas Company		1073/740	
	Jerry C. Olds	Petroleum Resources, Inc.		1334/17	
	Petroleum Resources, Inc.	MBM Interests, Inc.		1400/463	
	Jerry C. Olds and Constance J. Olds, his wife; MBM Investments, Inc., and Bowie, Inc.	Antero Resources Appalachian Corporation		1458/821	
	Antero Resources Appalachian Corporation	PDC Mountaineer, LLC		1458/1315	
00006705 ✓	Prime Space, LLC, Jennifer Saoud, Managing Member	Mar Key, LLC	Marcellus: 0.15000000 All other depths: 0.12500000	1568/96	3.488
00006614 (WVL03140.001) ✓	Montaini, Inc.	J. L. Smith Enterprises, Inc.	0.12500000	1375/122	132
	J. L. Smith Enterprises, Inc., d/b/a West Virginia Energies	db Explorations, LLC		1389/247	
	db Explorations, LLC	William W. and Sharon L. Layhue		1415/565 1415/571	
	db Explorations, LLC	Bobby Mitchell		1415/567 1415/573	
	db Explorations, LLC	Donna Sharps		1415/569 1415/575	
	Donna Sharps	db Explorations, LLC		1500/184	
	Bobby Mitchell	db Explorations, LLC		1500/179	
	db Explorations, LLC	Antero Resources Appalachian Corporation		1458/804	
	Antero Resources Appalachian Corporation	PDC Mountaineer, LLC		1500/458	
00006614 (WVL03140.002)	David J. Harmer and Melba Jo Harmer	J. L. Smith Enterprises, Inc., d/b/a West Virginia Energies	0.12500000	1376/933	132
	J. L. Smith Enterprises, Inc., d/b/a West Virginia Energies	db Explorations, LLC		1389/247	

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23-05884

	db Explorations, LLC	William W. and Sharon L. Layhue		1415/565 1415/571	
	db Explorations, LLC	Bobby Mitchell		1415/567 1415/573	
	db Explorations, LLC	Donna Sharps		1415/569 1415/575	
	Donna Sharps	db Explorations, LLC		1500/184	
	Bobby Mitchell	db Explorations, LLC		1500/179	
	db Explorations, LLC	Antero Resources Appalachian Corporation		1458/804	
	Antero Resources Appalachian Corporation	PDC Mountaineer, LLC		1500/458	
00006616 (WVL03140.003)	James A. Harmer and Betty R. Harmer, his wife	J. L. Smith Enterprises, Inc., d/b/a West Virginia Energies	0.12500000	1376/1154	132
	J. L. Smith Enterprises, Inc., d/b/a West Virginia Energies	db Explorations, LLC		1389/247	
	db Explorations, LLC	William W. and Sharon L. Layhue		1415/565 1415/571	
	db Explorations, LLC	Bobby Mitchell		1415/567 1415/573	
	db Explorations, LLC	Donna Sharps		1415/569 1415/575	
	Donna Sharps	db Explorations, LLC		1500/184	
	Bobby Mitchell	db Explorations, LLC		1500/179	
	db Explorations, LLC	Antero Resources Appalachian Corporation		1458/804	
	Antero Resources Appalachian Corporation	PDC Mountaineer, LLC		1500/458	
00006617 (WVL03140.004)	Nelson W. Spengler, Jr. and Margaret H. Spengler, co-Executors to the Estate of Nelson W. Spengler, Sr.	J. L. Smith Enterprises, Inc., d/b/a West Virginia Energies	0.12500000	1388/1178	132
	J. L. Smith Enterprises, Inc., d/b/a West Virginia Energies	db Explorations, LLC		1389/247	
	db Explorations, LLC	William W. and Sharon L. Layhue		1415/565 1415/571	
	db Explorations, LLC	Bobby Mitchell		1415/567 1415/573	
	db Explorations, LLC	Donna Sharps		1415/569 1415/575	
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	db Explorations, LLC	Antero Resources Appalachian Corporation		1458/804	
	Antero Resources Appalachian Corporation	PDC Mountaineer, LLC		1500/458	

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Agreement to Drill, Complete and Operate Oil & Gas Wells

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

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

[Signature Page Follows]

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Office of Oil and Gas

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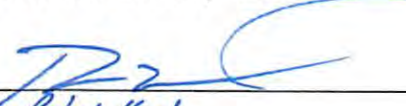
WV Department of
Environmental Protection

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

MOUNTAINEER KEYSTONE LLC

By: 
Name: Robert Kozel
Title: CEO

PDC MOUNTAINEER, LLC

By: 
Name: Robert Kozel
Title: CEO

PDC MOUNTAINEER HOLDINGS, LLC

By: 
Name: Robert Kozel
Title: CEO

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WV Department of
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**MOUNTAINEER KEYSTONE, LLC
WELL NO. 214 - TONY'S BRIDGE**

NOTES ON SURVEY

1. NO OCCUPIED DWELLINGS OR BUILDINGS 2500 SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY WITHIN 625 FEET OF THE CENTER OF THE WELL PAD WERE OBSERVED.
2. NO WATER WELLS OR DEVELOPED SPRINGS USED FOR HUMAN OR DOMESTIC ANIMAL CONSUMPTION WERE FOUND WITHIN 250 FEET OF THE WELL PAD.
3. NO RAILROADS ARE CROSSED BY THE PROPOSED TONY'S BRIDGE 214 LATERAL SURFACE OWNERSHIP TAKEN FROM THE HARRISON COUNTY TAX ASSESSOR AND COUNTY CLERK OFFICES IN FEBRUARY, 2015.
4. WELL LATITUDE AND LONGITUDE FROM SURVEY GRADE OPUS SOLUTION DERIVED ON FEBRUARY 20, 2015.
5. TIES TO CORNERS AND REFERENCES BASED ON WV STATE PLANE COORDINATE SYSTEM, NAD '83 NORTH ZONE UNLESS OTHERWISE NOTED.
6. LEASE INFORMATION PROVIDED BY MOUNTAINEER KEYSTONE, LLC.

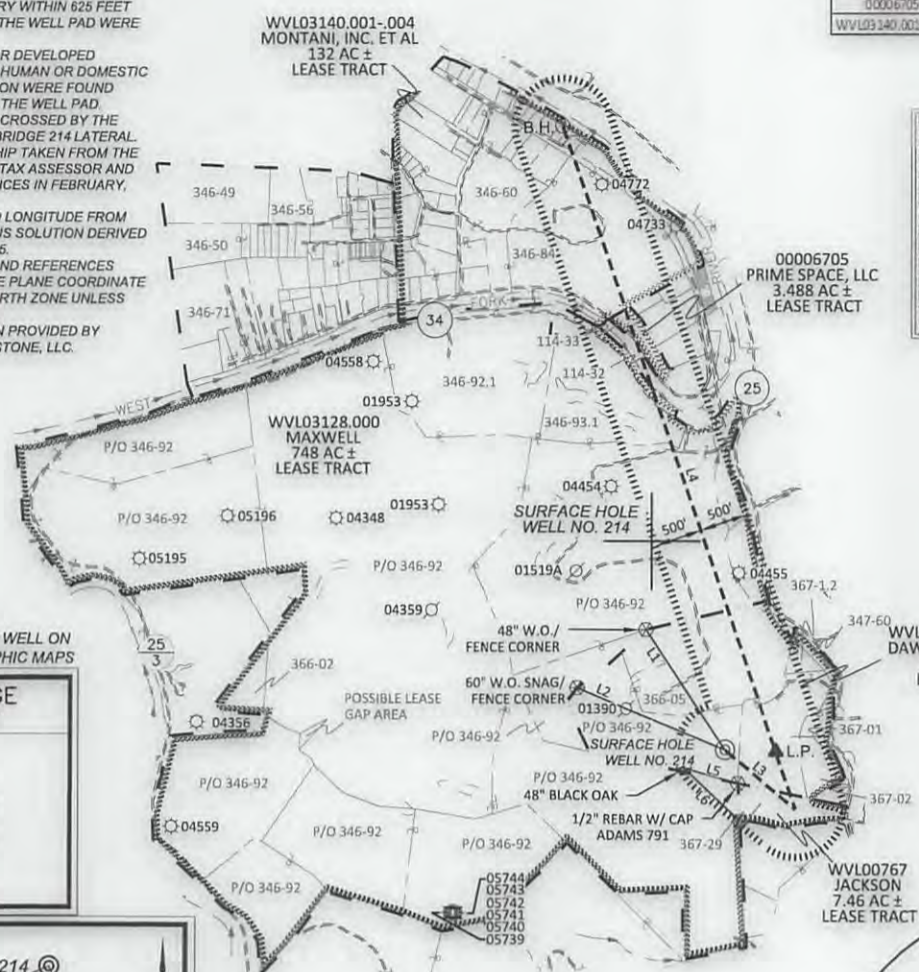
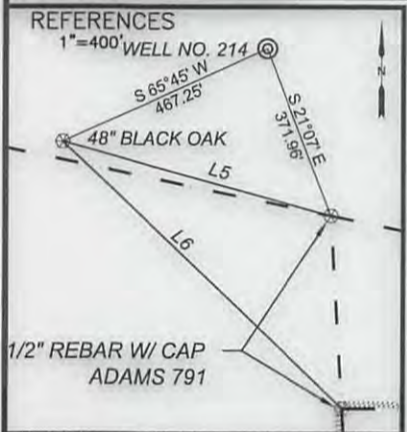
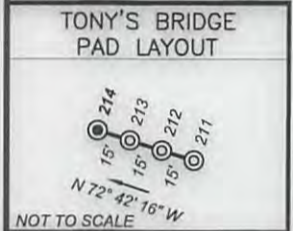
BOTTOM HOLE WELL NO. 214

MOUNTAINEER KEYSTONE, LLC WELL NO. 214		
LEASE NO.	LESSOR	LEASE AC.
WV103130.001-002	ALMETA L. DAWSON, ET AL	100
WV100767	MICHAEL L. JACKSON, ET UX	7.46
WV103128.000	FRANK J. MAXWELL	748
00006705	PRIME SPACE, LLC	3,488
WV103140.001-004	MONTANI, INC. ET AL	132

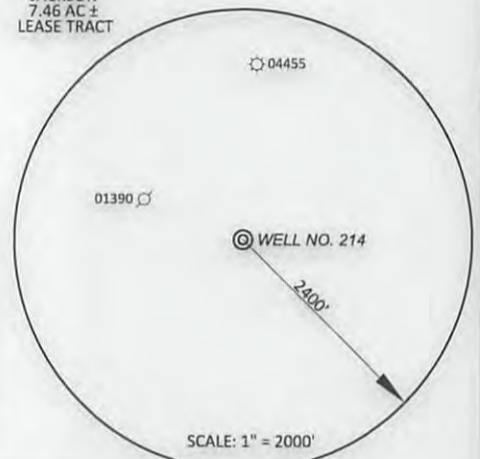
SYMBOL	DESCRIPTION
	LEASE BOUNDARY
	OUTER LEASE BOUNDARY
	SURFACE BOUNDARY
	CREEK/STREAM
	ROADS
	PROPOSED LATERAL
	500' LATERAL OFFSET
	EXISTING GAS WELL (active)
	EXISTING GAS WELL (plugged)
	EXISTING GAS WELL (never permitted)
	FOUND MONUMENT (as noted)
	TAX MAP AND PARCEL NO.
	WHITE OAK FOUND

ID	BEARING	DISTANCE
L1	N 33°41' W	1487.74'
L2	N 67°38' W	1672.14'
L3	S 50°05' E	956.48'
L4	N 19°05' W	6836.63'
L5	S 74°31' E	581.08'
L6	S 46°35' E	803.05'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



MOUNTAINEER KEYSTONE, LLC WELL NO. 214		
TOP HOLE (T.H.)	LANDING POINT (L.P.)	BOTTOM HOLE (B.H.)
LAT. / LON. (WGS 84): LAT. 39°13'45.34" LON. -80°21'24.70"	LAT. / LON. (WGS 84): LAT. 39°13'45.27" LON. -80°21'17.97"	LAT. / LON. (WGS 84): LAT. 39°14'48.91" LON. -80°21'47.16"
UTM ZONE 17 (NAD 83 METERS): N. 4342415.43 E. 555510.66	UTM ZONE 17 (NAD 83 METERS): N. 4342414.34 E. 555671.99	UTM ZONE 17 (NAD 83 METERS): N. 4344371.40 E. 554958.32



600 Marketplace Avenue, Suite 200
Bridgeport, WV 26330
Toll Free 855-488-9539
Fax 304-933-3327



Civil & Environmental Consultants, Inc.

DATE NOVEMBER 29, 2016

SCALE 1" = 2,000' ACCURACY 1:200

OPERATORS WELL No. 214

47 - 033 - 05884 H6A
API No.



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Division of Environmental Protection.

Dennis E. Miller

**STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS**



TYPE OF WELL:

GAS:
Production Storage *Deep *Shallow

PROPOSED WORK ON LOCATION:
Drill Drill Deeper Redrill Convert
Fracture/ Stimulate *Plug off to Formation
Perforate New Formation Plug and Abandon
Clean/ Replug Other Than Above
If "Other" Please see Details below—
DETAILS OF PROPOSED WORK _____

*TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD: ~7,197', TMD: ~14,567'

WELL AREA & LOCATION INFORMATION:

ELEVATION SOURCE DGPS (OPUS)

ELEVATION 1141.9' (GROUND), 1140.8' (PROPOSED)

WATERSHED BROWN'S CREEK OF WEST FORK RIVER DISTRICT GRANT

COUNTY HARRISON TOPO QUAD MOUNT CLARE

SURFACE OWNER LYNCH FARM, LLC

ACREAGE P/O 662.80 AC±

ROYALTY OWNER ALMETA L. DAWSON & PATRICIA ANN VORE KOHLER

LEASE ACREAGE 748, 132, 100, 7.46, 3,488 ±

WELL OPERATOR MOUNTAINEER KEYSTONE, LLC

ADDRESS 6031 WALLACE RD. EXT. SUITE 300
WEXFORD, PA 15090

DESIGNATED AGENT NATHAN SKEEN

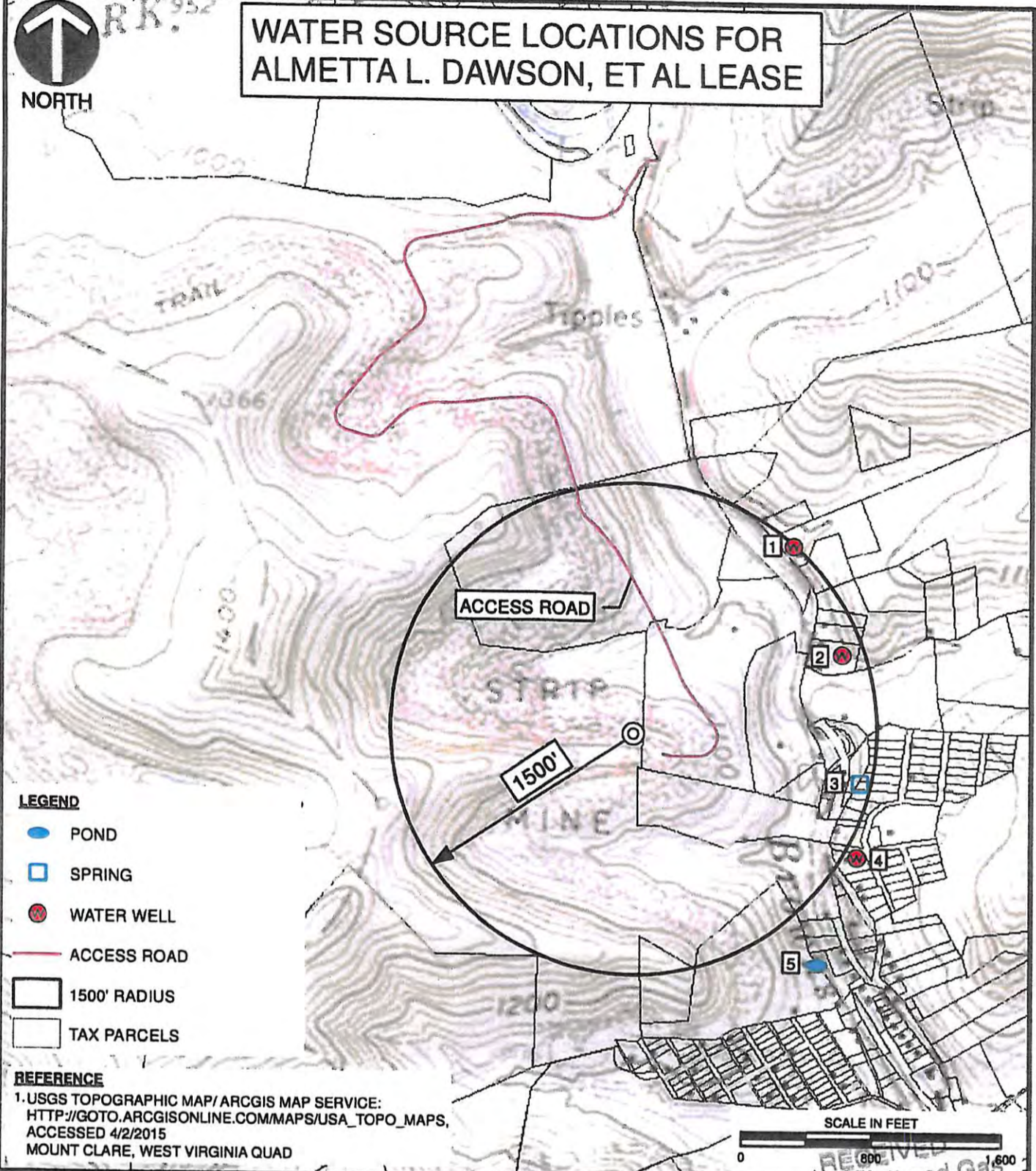
ADDRESS 45 PROFESSIONAL PLACE
BRIDGEPORT, WV 26330

02/10/2017



NORTH

WATER SOURCE LOCATIONS FOR ALMETTA L. DAWSON, ET AL LEASE



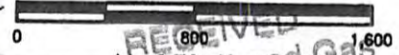
LEGEND

- POND
- SPRING
- WATER WELL
- ACCESS ROAD
- 1500' RADIUS
- TAX PARCELS

REFERENCE

1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA_TOPO_MAPS](http://goto.arcgisonline.com/maps/usa_topo_maps),
 ACCESSED 4/2/2015
 MOUNT CLARE, WEST VIRGINIA QUAD

SCALE IN FEET



Civil & Environmental Consultants, Inc.

99 Cambridge Place - Bridgeport, WV 26330-2820
 Ph: 304-933-3119 Toll: 855-488-9539 Fax: 304-933-3327
www.cecinc.com

MOUNTAINEER KEYSTONE, LLC
 MK TONY'S BRIDGE PAD
 HARRISON COUNTY, WEST VIRGINIA

WATER WELL LOCATION MAP

DRAWN BY:	ECA	CHECKED BY:	JDR	APPROVED BY:	DEM	FIGURE NO:	WT
DATE:	04/02/2015	SCALE:	1" = 800'	PROJECT NO:	150-191		

02/10/2017



November 28, 2016

Mr. Gene Smith
Assistant Chief, Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25301

Re: Ownership of Roadways, Tony's Bridge #214

Gene:

In preparation for 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 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.

Sincerely,

A handwritten signature in blue ink that reads "Amy L. Miller".

Amy L. Miller
Regulatory Compliance Specialist

am

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WV Department of
Environmental Protection

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

Date of Notice Certification: 11/29/2016

API No. 47- 033-05884
Operator's Well No. ²¹⁴ _____
Well Pad Name: Tony's Bridge

Notice has been given:

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>555510.66</u>
County: <u>Harrison</u>		Northing: <u>4342415.43</u>
District: <u>Grant</u>	Public Road Access: <u>County Route 25</u>	
Quadrangle: <u>Mount Clare</u>	Generally used farm name: <u>Lynch Farms, LLC</u>	
Watershed: <u>Brown's Creek of West fork River</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

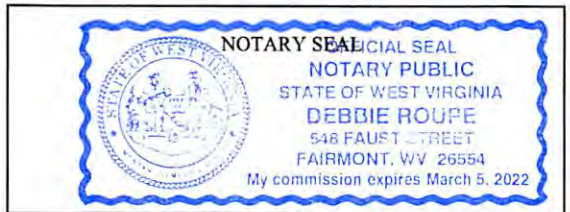
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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 Amy L. Miller *Amy Miller*, 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: Amy Miller
Its: Regulatory Compliance Specialist
Telephone: 724-940-1202

Address: 6031 Wallace Road Extension, Suite 300
Wexford, PA 15090
Facsimile: 800-428-0981
Email: amiller@mkeystone.com



Subscribed and sworn before me this 29th day of November 2016
Debbie Roupe Notary Public
My Commission Expires March 5, 2022

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

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: 11/29/2016 **Date Permit Application Filed:** 11/30/2016

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: Lynch Farms, LLC
Address: 51 Long Nook Road
Truro, MA 02666
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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WV Department of
Environmental Protection
02/10/2017

WW-6A
(9-13)

API NO. 47- 033 05884
OPERATOR WELL NO. 214
Well Pad Name: Tony's Bridge

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: Lynch Farms, LLC
Address: 1202 Kanawha Boulevard East, Apt. 3G
Charleston, WV 25301
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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Environmental Protection
02/10/2017

WW-6A
(9-13)

API NO. 47- 033-05884
OPERATOR WELL NO. 214
Well Pad Name: Tony's Bridge

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: Lynch Farms, LLC
Address: 355 Buckhannon Avenue
Clarksburg, WV 26301

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

02/10/2017

WW-6A
(9-13)

API NO. 47- 033 - 05884
OPERATOR WELL NO. 214
Well Pad Name: Tony's Bridge

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: 11/29/2016 **Date Permit Application Filed:** 11/30/2016

Notice of:

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

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

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

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

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

- SURFACE OWNER(s)
Name: _____
Address: _____
Name: _____
Address: _____
- SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____
- SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

- COAL OWNER OR LESSEE
Name: _____
Address: _____
- COAL OPERATOR
Name: _____
Address: _____
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Stephenie K. Kennedy and Julie L. Rea
Address: 3245 Mt. Clare Road
Clarksburg, WV 26301
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Michael Lee and Lori J. Jackson
Address: P.O. Box 8014
Nutter Fort, WV 26301

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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

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Address: _____

Name: _____
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Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Bassell Terrace
Address: 3399 Mount Clare Road
Clarksburg, WV 26301

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas

DEC 01 2016

WV Department of
Environmental Protection
02/10/2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: *see attached list
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

Tony's Bridge #214

Mineral Owners and Coal Owner or LesseeMineral Owners

Almeta L. Dawson (50% Ownership) ✓
641 Moorestown Mt. Laurel Road
Mt. Laurel, NJ 08054

Patricia Ann Vore Kohler ✓
665 Willow Valley SQ APT. N207
Lancaster, PA 17602

Pittsburgh Vein of Coal

WBM Heirs Properties, LLC (98% ownership) ✓
P.O. Box 2424
Clarksburg, WV 26302

Unknown Heirs of Emily A. Newton, deceased (remaining ownership)
*Address Unknown

All Other Veins of Coal

Almeta Dawson (50% ownership) ✓
641 Moorestown Mt. Laurel Road
Mt. Laurel, NJ 08054-9555

Unknown Heirs of Bernice Louse Combs Vore, deceased (50% ownership)
*Address Unknown

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Office of Oil and Gas
DEC 01 2016
WV Department of
Environmental Protection

02/10/2017

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 on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

RECEIVED
Office of Oil and Gas
DEC 01 2016

WV Department of
Environmental Protection

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.

RECEIVED
Office of Oil and Gas
DEC 01 2016
WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 033 - 05884
OPERATOR WELL NO. 214
Well Pad Name: Tony's Bridge

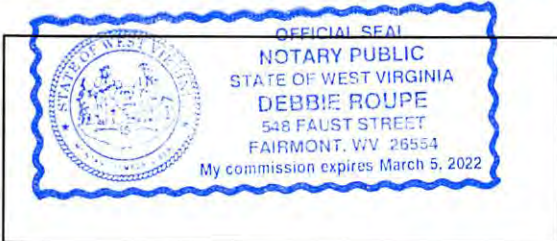
Notice is hereby given by:

Well Operator: Mountaineer Keystone, LLC *Amy Miller*
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:

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.



Subscribed and sworn before me this 29th day of November 2016.

Debbie Roupe Notary Public

My Commission Expires March 5, 2022

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Office of Oil and Gas
DEC 01 2016
WV Department of
Environmental Protection

02/10/2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 1/12/15 **Date of Planned Entry:** 1/19/15

Delivery method pursuant to West Virginia Code § 22-6A-10a

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Charles and Mary Mick

Address: 132 Antler Drive
Clarksburg, WV 26301

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: *See attached list

Address: _____

MINERAL OWNER(s)

Name: *See attached list

Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.228877; -80.355408</u>
County: <u>Harrison</u>	Public Road Access: <u>County Route 25</u>
District: <u>Grant</u>	Watershed: <u>West Fork</u>
Quadrangle: <u>Mount Clare</u>	Generally used farm name: <u>Charles G. Mick and Mary K. Mick</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Mountaineer Keystone, LLC

Telephone: 724-940-1202

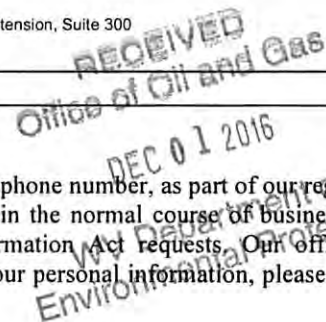
Email: amiller@mkeystone.com

Address: 6031 Wallace Road Extension, Suite 300
Wexford, PA 15090

Facsimile: 800-428-0981

Oil and Gas Privacy Notice:

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Tony's Bridge #214

Mineral Owners and Coal Owner or Lessee

Mineral Owners

Almeta L. Dawson (50% Ownership)
641 Moorestown Mt. Laurel Road
Mt. Laurel, NJ 08054

Patricia Ann Vore Kohler
665 Willow Valley SQ APT. N207
Lancaster, PA 17602

Pittsburgh Vein of Coal

WBM Heirs Properties, LLC (98% ownership)
P.O. Box 2424
Clarksburg, WV 26302

Unknown Heirs of Emily A. Newton, deceased (remaining ownership)
*Address Unknown

All Other Veins of Coal

Almeta Dawson (50% ownership)
641 Moorestown Mt. Laurel Road
Mt. Laurel, NJ 08054-9555

Unknown Heirs of Bernice Louse Combs Vore, deceased (50% ownership)
*Address Unknown

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WV Department of
Environmental Protection

33-05884

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 3/5/15 **Date of Planned Entry:** 3/12/15

Delivery method pursuant to West Virginia Code § 22-6A-10a

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Lynch Farms, LLC (Pad)
Address: 1202 Kanawha Boulevard East, Apt. 3G
Charleston, WV 25301

Name: Lynch Farms, LLC (Road Access)
Address: 1202 Kanawha Boulevard East, Apt. 3G
Charleston, WV 25301

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Lynch Farms, LLC
Address: 1202 Kanawha Boulevard East, Apt. 3G
Charleston, WV 25301

MINERAL OWNER(s)

Name: Lynch Farms, LLC
Address: 1202 Kanawha Boulevard East, Apt. 3G
Charleston, WV 25301

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.228877; -80.355408</u>
County: <u>Harrison</u>	Public Road Access: <u>County Route 25</u>
District: <u>Grant</u>	Watershed: <u>West Fork</u>
Quadrangle: <u>Mount Clare</u>	Generally used farm name: <u>Charles G. Mick and Mary K. Mick</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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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Office of Oil and Gas
DEC 01 2016
WV Department of Environmental Protection

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

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

Date of Notice: 11/29/2016 **Date Permit Application Filed:** 11/30/2016

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

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: <u>Lynch Farms, LLC</u>	Name: _____
Address: <u>51 Long Nook Road</u>	Address: _____
<u>Truro, MA 02666</u>	_____

Notice is hereby given:

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>555510.66</u>
County: <u>Harrison</u>		Northing: <u>4342415.43</u>
District: <u>Grant</u>	Public Road Access: <u>County Route 25</u>	
Quadrangle: <u>Mount Clare</u>	Generally used farm name: <u>Lynch Farms, LLC</u>	
Watershed: <u>Brown's Creek of West Fork River</u>		

This Notice Shall Include:

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

Well Operator: <u>Mountaineer Keystone, LLC</u>	Address: <u>6031 Wallace Road Extension, Suite 300</u>
Telephone: <u>724-940-1202</u>	<u>Wexford, PA 15090</u>
Email: <u>amiller@mkeystone.com</u>	Facsimile: <u>800-428-0981</u>

Oil and Gas Privacy Notice:

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WV Department of
Environmental Protection

02/10/2017

WW-6A5
(1/12)

Operator Well No. Tony's Bridge 214

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

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

Date of Notice: 11/29/2016 **Date Permit Application Filed:** 11/30/2016

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

CERTIFIED MAIL **HAND**
RETURN RECEIPT REQUESTED **DELIVERY**

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Lynch Farms, LLC
Address: 355 Buckhannon Avenue
Clarksburg, WV 26301

Name: _____
Address: _____

Notice is hereby given:

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

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>555510.66</u>
County:	<u>Harrison</u>		Northing:	<u>4342415.43</u>
District:	<u>Grant</u>	Public Road Access:	<u>County Route 25</u>	
Quadrangle:	<u>Mount Clare</u>	Generally used farm name:	<u>Lynch Farms, LLC</u>	
Watershed:	<u>Brown's Creek of West Fork River</u>			

This Notice Shall Include:

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

Well Operator: Mountaineer Keystone, LLC
Telephone: 724-840-1202
Email: amiller@mkeystone.com

Address: 6031 Wallace Road Extension, Suite 300
Wexford, PA 15090
Facsimile: 800-428-0981

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WW-6A5
(1/12)

Operator Well No. Tony's Bridge 214

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

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

Date of Notice: 11/29/2016 **Date Permit Application Filed:** 11/30/2016

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

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RETURN RECEIPT REQUESTED DELIVERY

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Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Mary Mick
Address: 132 Antler Drive
Clarksburg, WV 26301

Name: _____
Address: _____

Notice is hereby given:

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

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>555510.66</u>
County:	<u>Harrison</u>		Northing:	<u>4342415.43</u>
District:	<u>Grant</u>	Public Road Access:	<u>County Route 25</u>	
Quadrangle:	<u>Mount Clare</u>	Generally used farm name:	<u>Lynch Farms, LLC</u>	
Watershed:	<u>Brown's Creek of West Fork River</u>			

This Notice Shall Include:

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

Well Operator: Mountaineer Keystone, LLC
Telephone: 724-940-1202
Email: amiller@mkeystone.com

Address: 6031 Wallace Road Extension, Suite 300
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Facsimile: 800-428-0981

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WV Department of
Environmental Protection

02/10/2017



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Earl Ray Tomblin
 Governor

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

November 28, 2016

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 Tony's Bridge Pad, Harrison County
 Tony's Bridge 214 Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #04-2015-0416 for the subject site to Mountaineer Keystone, LLC for access to the State Road for the well site located off of Harrison County 34 SLS.

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

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

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WV Department of
Environmental Protection

33-05884

Tony's Bridge #214			
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

TONY'S BRIDGE FINAL SITE DESIGN, CONSTRUCTION PLANS, & EROSION & SEDIMENT CONTROL PLANS MOUNTAINEER KEYSTONE, LLC

LAT./LONG: N 39° 13' 44.94" W 80° 21' 24.02"
(APPROXIMATE CENTER OF PROJECT)



WEST VIRGINIA 811 ONE CALL WAS PERFORMED IN APRIL, 2015
THE FOLLOWING UTILITY COMPANIES MAY BE PRESENT IN THE PROJECT AREA

- FRONTIER COMMUNICATIONS (FORMERLY VERIZON)
- BOWIE INC.
- GREATER HARRISON COUNTY PSD
- DOMINION HOPE
- HIGHTENRY GROUP
- PDG MOUNTAINEER LLC

PROJECT OWNER/APPLICANT
MOUNTAINEER KEYSTONE, LLC
6031 WALLACE ROAD EXTENSION, SUITE 300
WEXFORD, PA 15090
PH: (724) 840-1150
CONTACT: AMY MILLER

WOODS
DISTRICT FOUR
PH: (304) 842-1550
CONTACT: DISTRICT ENGINEER
RAY LEESE

CIVIL ENGINEER
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
89 CAMBRIDGE PLACE
BRIDGEPORT, WV 26330
PH: (304) 933-3119
CONTACT: JOSEPH D. ROBINSON, P.E.

SPILL HOTLINE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP)
PH: (800) 642-3074

NATIONAL RESPONSE CENTER
PH: (800) 424-8802

LOCAL EMERGENCY SERVICES		
AMBULANCE	NAME	TELEPHONE NO.
HOSPITAL EMERGENCY ROOM	UNITED HOSPITAL CENTER	(304) 342-1000
FIRE DEPARTMENT	911	
POLICE DEPARTMENT	911	
POISON CONTROL CENTER	WEST VIRGINIA POISON CENTER	(800) 222-1222



AFFECTED TAX PARCELS - HARRISON COUNTY, WV

CHARLES G. & MARY K. WICK
TAX MAP 367 PARCEL 1
DEED BOOK 964 PAGE 715
15.50 AC
(AFFECTED AREA FROM MAIN ACCESS ROAD = 4.14 ACRES)
(AFFECTED AREA FROM DRILL PAD = 1.83 ACRES)
(AFFECTED AREA FROM TOPSOIL PILES = 0.43 ACRES)

MARY K. WICK
TAX MAP 366 PARCEL 5
DEED BOOK 964 PAGE 719
34.00 AC
(AFFECTED AREA FROM MAIN ACCESS ROAD = 2.95 ACRES)
(AFFECTED AREA FROM WATER TRUCK TURNAROUND = 0.80 ACRES)
(AFFECTED AREA FROM ASSOCIATED PIT ACCESS ROAD = 0.98 ACRES)
(AFFECTED AREA FROM ASSOCIATED PIT = 4.07 ACRES)
(AFFECTED AREA FROM TOPSOIL PILES = 1.23 ACRES)

LYNCH FARM, LLC
TAX MAP 346 PARCEL 92
DEED BOOK 1477 PAGE 1003
709.47 AC
(AFFECTED AREA FROM MAIN ACCESS ROAD = 8.43 ACRES)
(AFFECTED AREA FROM DRILL PAD = 3.87 ACRES)
(AFFECTED AREA FROM ASSOCIATED PIT ACCESS ROAD = 0.01 ACRES)
(AFFECTED AREA FROM TOPSOIL PILES = 0.03 ACRES)

APPROVED WVDEP OOG
2015 6/26/2015

SITE DISTURBANCE

- MAIN ACCESS ROAD = 15.50 AC
- DRILL PAD = 5.50 AC
- PIT ACCESS ROAD = 0.99 AC
- WATER TRUCK TURNAROUND = 0.80 AC
- ASSOCIATED PIT = 4.07 AC
- TOPSOIL PILES = 1.99 AC
- TOTAL = 38.57 AC

TOTAL WOODED AREA = 14.90 AC

PLAN REPRODUCTION WARNING

THE PLANS HAVE BEEN CREATED ON ANSI D 22" X 34" SHEETS FOR REDUCTIONS. REFER TO GR4HC SCALE.

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

WARNING INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

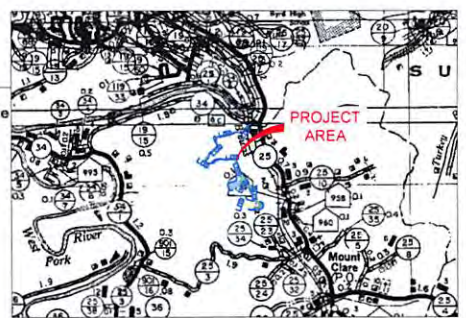
FLOOD PLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	YES
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
HEC-RAS STUDY COMPLETED	NO
FLOODPLAIN SHOWN ON DRAWINGS	YES
FIRM MAP NUMBER(S) FOR SITE	540390021D
ACREAGE OF CONSTRUCTION IN FLOODPLAIN	0.00

SHEET INDEX	
SHEET 1 OF 32	COVER SHEET
SHEET 2 OF 32	EXISTING CONDITIONS PLAN
SHEET 3 OF 32	CONSTRUCTION NOTES
SHEET 4 OF 32	SUMMARY OF QUANTITIES & BORNS LOGS
SHEET 5 OF 32	OVERVIEW SITE PLAN
SHEETS 6-10 OF 32	FINAL SITE DESIGN PLAN
SHEETS 11-22 OF 32	PROFILES & CROSS SECTIONS
SHEETS 23-27 OF 32	CONSTRUCTION DETAILS
SHEETS 28-31 OF 32	DECLARATION PLAN

SITE LOCATIONS WV83 (WEST VIRGINIA NORTH ZONE)		
	LATITUDE	LONGITUDE
CENTROID OF PAD	38.229151	-80.356671
CENTROID OF ASSOCIATED PIT	38.231402	-80.356681

SITE LOCATIONS UTM83-17 (WEST VIRGINIA NORTH ZONE)		
	NORTHING	EASTING
CENTROID OF PAD	4342403.5485	5554027.1241
CENTROID OF ASSOCIATED PIT	4342951.9198	5553511.8085

LOCATION MAP
MOUNT CLARE USGS 7.5' QUAD
SCALE IN FEET
1 INCH = 1000 FEET



VICINITY MAP
HARRISON COUNTY ROAD MAP
SCALE IN FEET
1 INCH = 1/2 MILE



NO.	DATE	REVISION	RECORD

C&E
Civil & Environmental Consultants, Inc.
99 Cambridge Place - Bridgeport, WV 26330
PH: 304.933.3119 - 855.488.9539 - Fax: 304.933.3327
www.candec.com

MOUNTAINEER KEYSTONE, LLC
TONY'S BRIDGE WELL PAD
GRANT-OUTSIDE DISTRICT
HARRISON CO., WEST VIRGINIA

COVER SHEET

DATE: APRIL 2015
SCALE: AS SHOWN
PROJECT NO: 158-181
DRAWN BY: JDR
CHECKED BY: JDR
DATE: APRIL 2015
SCALE: AS SHOWN
PROJECT NO: 158-181
DRAWN BY: JDR
CHECKED BY: JDR

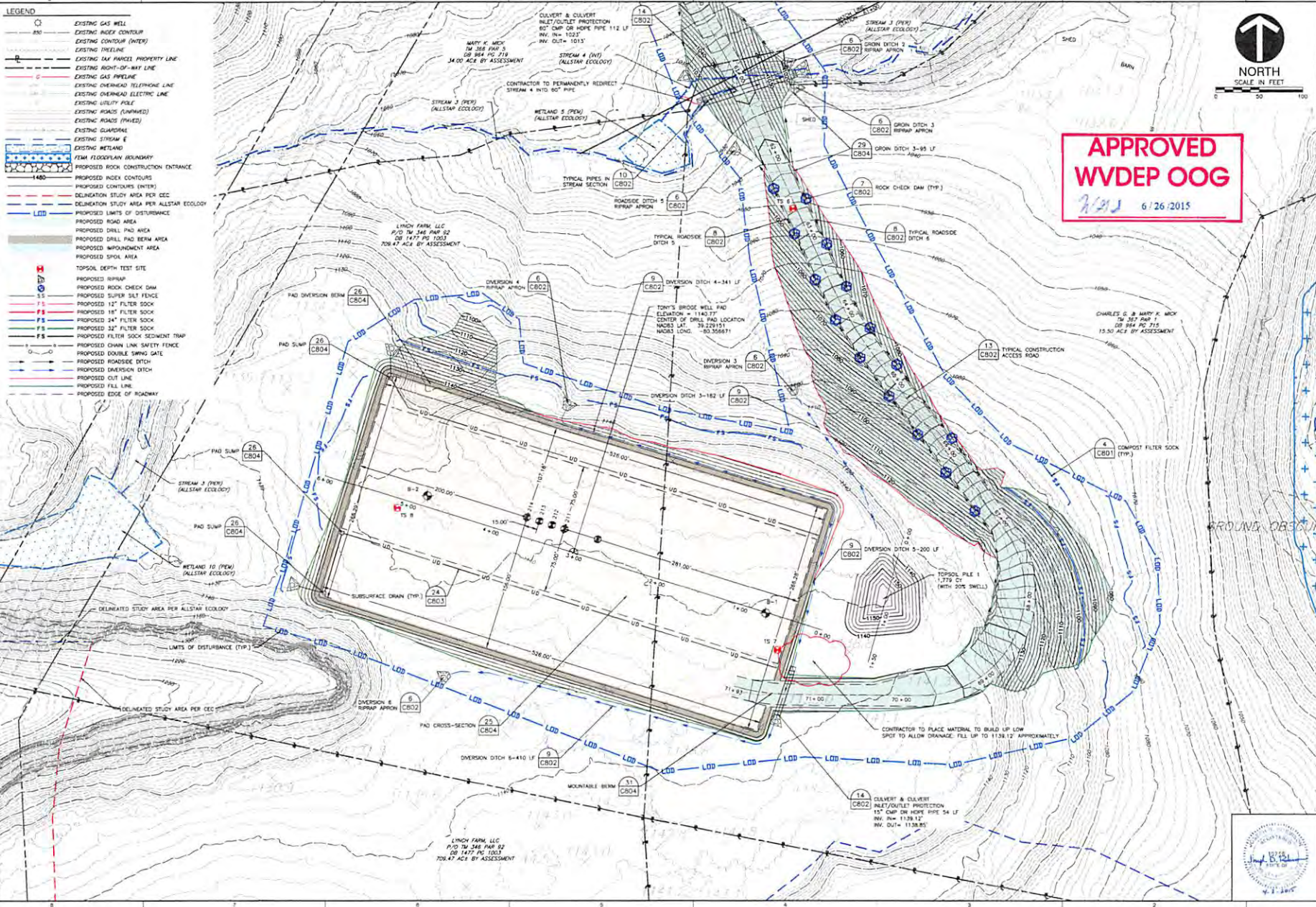
DRAWING NO: **C000**
SHEET 1 OF 32



- LEGEND**
- EXISTING GAS WELL
 - EXISTING INDEX CONTOUR
 - EXISTING CONTOUR (INTER)
 - EXISTING TREELINE
 - EXISTING TAX PARCEL PROPERTY LINE
 - EXISTING RIGHT-OF-WAY LINE
 - EXISTING GAS PIPELINE
 - EXISTING OVERHEAD TELEPHONE LINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UTILITY PALE
 - EXISTING ROADS (UNPAVED)
 - EXISTING ROADS (PAVED)
 - EXISTING STREAM E
 - EXISTING METLAND
 - FEMA FLOODPLAIN BOUNDARY
 - PROPOSED ROCK CONSTRUCTION ENTRANCE
 - PROPOSED INDEX CONTOURS
 - PROPOSED CONTOURS (ENTER)
 - DELIMITATION STUDY AREA PER DEC
 - DELIMITATION STUDY AREA PER ALLSTAR ECOLOGY
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED DRILL PAD AREA
 - PROPOSED IMPOUNDMENT AREA
 - PROPOSED SPILL AREA
 - TOPSOIL DEPTH TEST SITE
 - PROPOSED RIPRAP
 - PROPOSED ROCK CHECK DAM
 - PROPOSED SUPER SALT FENCE
 - PROPOSED 12" FILTER SOCK
 - PROPOSED 18" FILTER SOCK
 - PROPOSED 24" FILTER SOCK
 - PROPOSED 32" FILTER SOCK
 - PROPOSED FILTER SOCK SEGMENT TRAP
 - PROPOSED CHAIN LINK SAFETY FENCE
 - PROPOSED DOUBLE SWING GATE
 - PROPOSED ROADSIDE DITCH
 - PROPOSED DIVERSION DITCH
 - PROPOSED CUT LINE
 - PROPOSED FILL LINE
 - PROPOSED EDGE OF ROADWAY



APPROVED
WVDEP OOG
6/26/2015



REVISION RECORD

NO.	DATE	DESCRIPTION

CEE

Civil & Environmental Consultants, Inc.
99 Cambridge Place • Bridgeport, WV 26330
PH: 304.833.3119 • 855.488.8539 • FAX: 304.933.3327
WWW.CEEPCON.COM

MOUNTAINEER KEYSTONE, LLC
TONY'S BRIDGE WELL PAD
GRANT-OUTSIDE DISTRICT
HARRISON CO., WEST VIRGINIA

FINAL SITE DESIGN PLAN

DATE	APRIL 2015	DRAWN BY	MMB/SCA
PROJECT NO.	11-142	CHECKED BY	CEM
PROJECT NO.	11-142	APPROVED BY	156-151

DRAWING NO. **C307**
SHEET 10 OF 33



TONY'S BR AS BUILT PL MOUNTAINEER KEY

LAT./LONG: N 39° 13' 44.94" V
(APPROXIMATE CENTER C



WEST VIRGINIA 811 ONE CALL WAS PERFORMED IN APRIL, 2015.
THE FOLLOWING UTILITY COMPANIES MAY BE PRESENT IN THE PROJECT AREA:

- FRONTIER COMMUNICATIONS (FORMERLY VERIZON)
- BOWIE INC
- GREATER HARRISON COUNTY PSD
- DOMINION HOPE
- FIRSTENERGY CORP.
- PDC MOUNTAINEER LLC.

PROJECT OWNER/APPLICANT

MOUNTAINEER KEYSTONE, LLC
6031 WALLACE ROAD EXTENSION, SUITE 300
WEXFORD, PA 15090
PH: (724) 940-1100
CONTACT: AMY MILLER

CIVIL ENGINEER

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
99 CAMBRIDGE PLACE
BRIDGEPORT, WV 26330
PH: (304) 933-3119
CONTACT: JOSEPH D. ROBINSON, P.E.

WDOH

DISTRICT FOUR
PH: (304) 842-1550
CONTACT: DISTRICT ENGINEER
RAY URSE

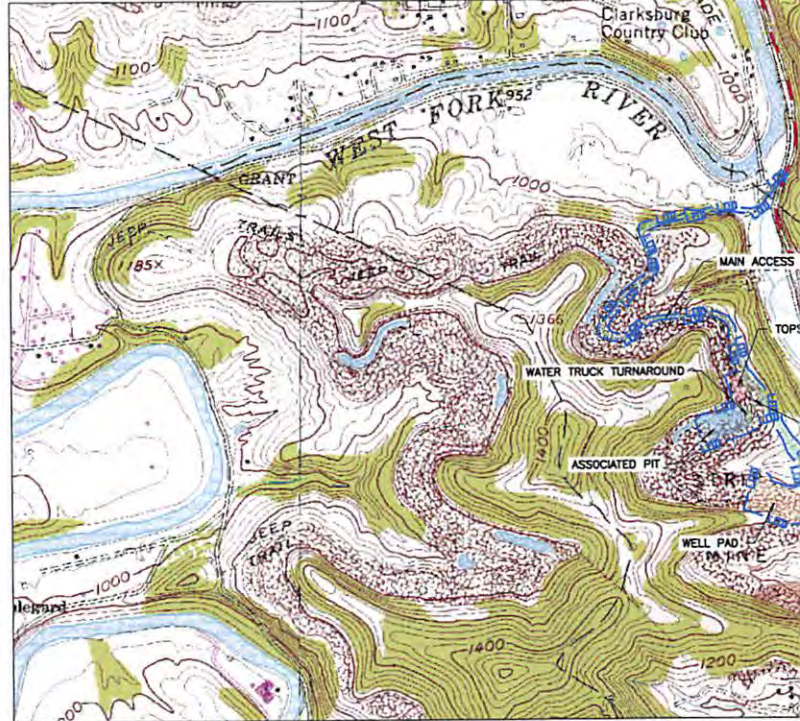
SPILL HOTLINE

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP)
PH: (800) 642-3074

NATIONAL RESPONSE CENTER
PH: (800) 424-6802

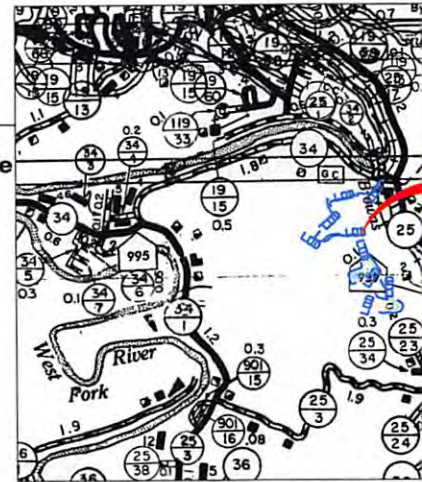
LOCAL EMERGENCY SERVICES

	NAME	TELEPHONE NO.
AMBULANCE		911
HOSPITAL EMERGENCY ROOM	UNITED HOSPITAL CENTER	(304) 342-1000
FIRE DEPARTMENT		911
POLICE DEPARTMENT		911
POISON CONTROL CENTER	WEST VIRGINIA POISON CENTER	(800) 222-1222



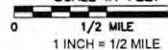
LOCATION MA

MOUNT CLARE USGS 7.5
SCALE IN FEET



VICINITY MA

HARRISON COUNTY RO
SCALE IN FEET

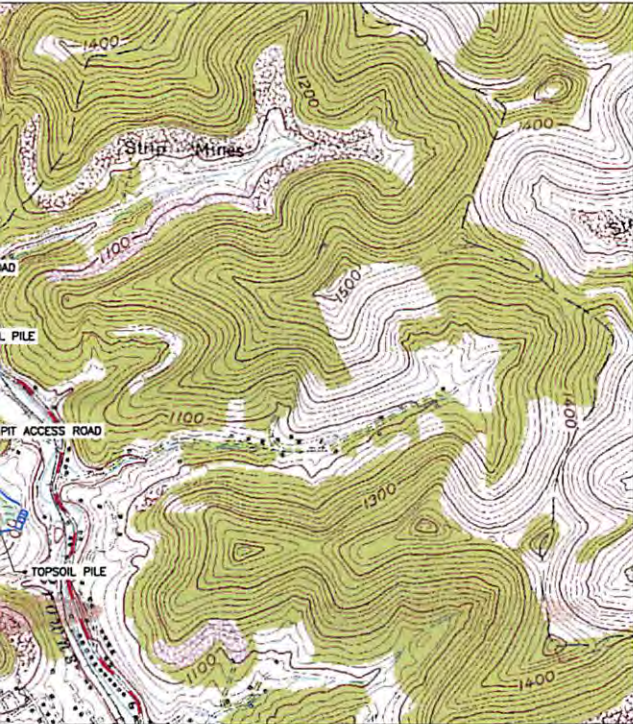


02/10/2017

P:\2015\150-191-CAD\Map\4_Burn\150191-007-000-COVER-ASBUL-ENG\0000\1502102016 - mkey.mxd - LP - 2/10/2016 3:30 PM

DGE ANS STONE, LLC

80° 21' 24.02"
PROJECT)



AFFECTED TAX PARCELS:
GRANT-OUTSIDE DISTRICT - HARRISON COUNTY, WV

CHARLES G. & MARY K. MICK
TAX MAP 367 PARCEL 1
DEED BOOK 964 PAGE 715
15.50 AC±
(AFFECTED AREA FROM MAIN ACCESS ROAD = 4.03 ACRES)
(AFFECTED AREA FROM DRILL PAD = 1.63 ACRES)
(AFFECTED AREA FROM TOPSOIL PILES = 0.20 ACRES)

MARY K. MICK
TAX MAP 366 PARCEL 5
DEED BOOK 964 PAGE 719
34.00 AC±
(AFFECTED AREA FROM MAIN ACCESS ROAD = 2.09 ACRES)
(AFFECTED AREA FROM WATER TRUCK TURNAROUND = 0.67 ACRES)
(AFFECTED AREA FROM ASSOCIATED PIT ACCESS ROAD = 0.90 ACRES)
(AFFECTED AREA FROM ASSOCIATED PIT = 3.28 ACRES)
(AFFECTED AREA FROM TOPSOIL PILES = 0.75 ACRES)

LYNCH FARM, LLC
TAX MAP 346 PARCEL 92
DEED BOOK 1477 PAGE 1003
709.47 AC±
(AFFECTED AREA FROM MAIN ACCESS ROAD = 7.03 ACRES)
(AFFECTED AREA FROM DRILL PAD = 3.25 ACRES)

VOLUME OF EARTHWORK WITHIN LOD
CUT VOLUME: 62,968
FILL VOLUME: 54,974

THESE VOLUMES ARE BASED ON AERIAL TOPOGRAPHY PROVIDED BY BLUE MOUNTAIN AERIAL MAPPING AND THE FIELD COLLECTED AS-BUILT SURFACE ON JANUARY 18-19, 2016 PROVIDED BY CIVIL AND ENVIRONMENTAL CONSULTANTS.

GRADING VOLUMES			
DESCRIPTIONS	CUT (CY)	FILL (CY)	NET (CY)
MAIN ACCESS ROAD	36,264	15,680	21,053
DRILL PAD	11,761	8,119	1,127
ASSOCIATED PIT	13,121	11,805	3,770
WATER TRUCK TURNAROUND	148	2,585	-3,269
ASSOCIATED PIT ACCESS ROAD	1,637	1,521	116
TOPSOIL PILES	37	11,826	-11,789
ROCK PILES	0	4,438	-4,438
TOTAL	62,968	54,974	7,994

SUBMITTAL & REVISION RECORD

Civil & Environmental Consultants, Inc.
600 Marketplace Ave · Suite 200 · Bridgeport, WV 26330
Ph: 304.933.3119 · 855.488.9539 · Fax: 304.933.3327
www.cecinc.com

MOUNTAINEER KEYSTONE, LLC
TONY'S BRIDGE WELL PAD
GRANT-OUTSIDE DISTRICT
HARRISON CO., WEST VIRGINIA

COVER SHEET

DATE:	JAN, 2016	DRAWN BY:	KKW
DWG SCALE:	AS SHOWN	CHECKED BY:	JHL
PROJECT NO.:	160-181	APPROVED BY:	DEM

DRAWING NO.: **1**



NORTH



NORTH

SDW
11/24/2016

PLAN REPRODUCTION WARNING
THE PLANS HAVE BEEN CREATED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.
WARNING: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

SITE DISTURBANCE:

MAIN ACCESS ROAD	==	13.15 AC
DRILL PAD	==	3.28 AC
PIT ACCESS ROAD	==	0.90 AC
WATER TRUCK TURNAROUND	==	0.67 AC
ASSOCIATED PIT	==	4.88 AC
TOPSOIL PILES	==	0.95 AC
TOTAL	==	23.82 AC

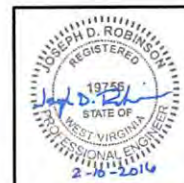
FLOOD PLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	YES
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	NO
HEC-RAS STUDY COMPLETED:	NO
FLOODPLAIN SHOWN ON DRAWINGS:	YES
FIRM MAP NUMBER(S) FOR SITE:	54033C0251D
ACREAGE OF CONSTRUCTION IN FLOODPLAIN:	0.00

WELL LEGEND:



SHEET INDEX	
SHEET 1 OF 17	COVER SHEET
SHEET 2 OF 17	OVERVIEW AS-BUILT PLAN
SHEET 3-7 OF 17	AS-BUILT SITE PLANS
SHEET 8-17 OF 17	ROAD PROFILE

SITE LOCATIONS WV83 (WEST VIRGINIA NORTH ZONE)		
	LATITUDE	LONGITUDE
CENTROID OF PAD	39.22077	-80.35669
CENTROID OF ASSOCIATED PIT	39.23140	-80.35868



DRAWING NO.: **1**

DATE: **02/10/2017**