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**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

June 11, 2014

**WELL WORK PERMIT**  
**Horizontal 6A Well**

This permit, API Well Number: 47-7700609, issued to MOUNTAINEER KEYSTONE, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

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

James Martin  
Chief

Operator's Well No: VINCENT 203  
Farm Name: VINCENT, DONALD  
**API Well Number: 47-7700609**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 06/11/2014

**Promoting a healthy environment.**

## 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.

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### CONDITIONS

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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 fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

WW-6B  
(9/13)

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

1) Well Operator: Mountaineer Keystone, LLC 494501227 Preston Lyon Fellowsville  
Operator ID County District Quadrangle

2) Operator's Well Number: Vincent 203 Well Pad Name: Vincent

3) Farm Name/Surface Owner: Donald Vincent Public Road Access: CR 60/4

4) Elevation, current ground: 1673 Elevation, proposed post-construction: 1675

5) Well Type (a) Gas  Oil  Underground Storage

Other

(b) If Gas Shallow  Deep

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):  
Marcellus Shale, 8375 ft. (TVD Heel) - 8263 ft. (TVD Toe), 100 ft., 0.5psi/ft.

8) Proposed Total Vertical Depth: 8375'

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 12336'

11) Proposed Horizontal Leg Length: 3635'

12) Approximate Fresh Water Strata Depths: surface to 800'

13) Method to Determine Fresh Water Depths: offsetting wells reported water depths (091-000097, 077-00480, 077-00483, 077-00564)

14) Approximate Saltwater Depths: 1000' - 1470'

15) Approximate Coal Seam Depths: Bakerslow - 390', Brush Creek - 490', Upper Freeport - 580', Lower Freeport - 630', Upper Kittaning - 705', Middle Kittaning - 750', Lower Kittaning - 770'

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: \_\_\_\_\_

**RECEIVED**  
Office of Oil and Gas

MAY 07 2014

WV Department of  
Environmental Protection

WW-6B  
(9/13)

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling</u>	<u>INTERVALS: Left in Well</u>	<u>CEMENT: Fill-up (Cu. Ft.)</u>
Conductor	20"	New	H-40	94#	120'	120'	Grout
Fresh Water	13.375"	New	J-55	54.5#	900'	900'	CTS
Coal							
Intermediate	9.625"	New	J-55	36#	1900'	1900'	CTS
Production	5.5"	New	P-110	20#	12,336'	12,336'	TOC@1,700'
Tubing							
Liners							

*SPW*  
*2/19/2014*

<b>TYPE</b>	<u>Size</u>	<u>Wellbore Diameter</u>	<u>Wall Thickness</u>	<u>Burst Pressure</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	26"	0.417"	1530	None	None
Fresh Water	13.375"	17.5"	0.38"	2730	Class A & 1.5% Cacl	1.18
Coal						
Intermediate	9.625"	12.25"	0.352"	3520	Type 1 & 1.5% Cacl	1.2
Production	5.5"	8.75"	0.361"	14360	50/50 Type 1	1.2
Tubing						
Liners						

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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WW-6B  
(9/13)

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 26" hole to Conductor programmed depth then running 20" 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): 9.8 acres

22) Area to be disturbed for well pad only, less access road (acres): 5.7 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 1,700' TOC will be 1,700'; there will be no centralizers from 1,700' to surface.

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

\*See attached sheet

25) Proposed borehole conditioning procedures:

\*See attached sheet

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Office of Oil and Gas  
WV Dept. of Environmental Protection

\*Note: Attach additional sheets as needed.

# Mountaineer Keystone



Vincent, John 203

## Cement Additives and Borehole Conditioning Procedures

### 24) Describe all cement additives associated with each cement type.

20" is drive pipe. 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 1,700' (+/- 200' above the casing shoe for the 9 5/8") with Type 1 or Class A cement retarder (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly a gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right-angle" set) during the plastic phase of the cement set-up.

### 25) Proposed borehole conditioning procedures:

Top holes will be drilled with fresh water to KOP. At KOP, the wellbore will be loaded with synthetic oil based mud, barite-weighted mud system with such properties as to build a filter-cake on the face to the bore-hole. This will provide lubricity as well as stabilizing the well bore. We will begin rotating the drill string and mud will be circulated upon reaching TD until no further cuttings are observed coming across the shaker screens. Once clean mud is circulated back to surface, we will pull three stands of drill pipe, load the hole, pull three stands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are 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 until we reach the vertical section of the well.

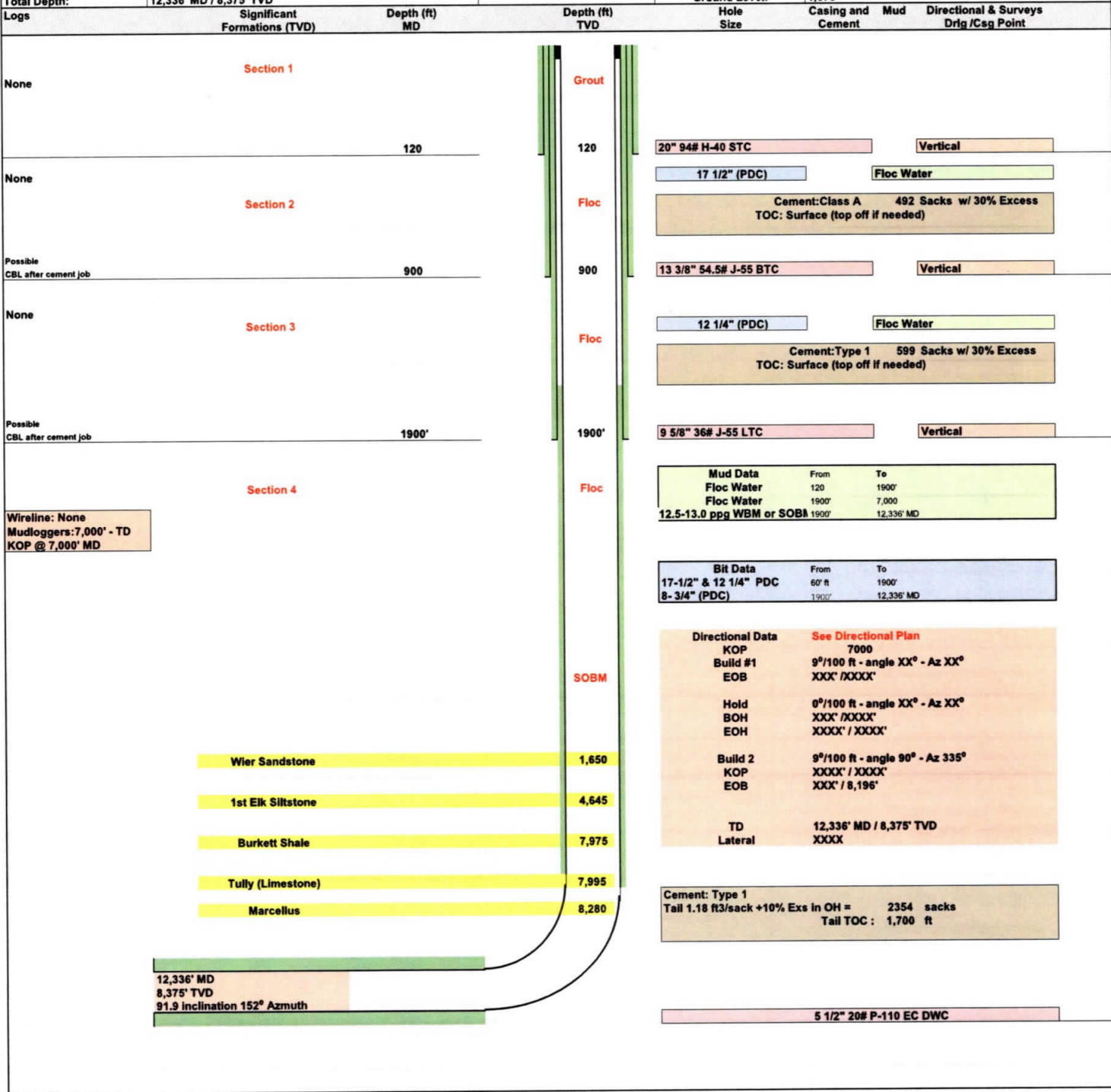
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MAR - 5 2014



Mountaineer Keystone  
 Vincent #203  
 Casing Design  
 Directional Plan #1 (Phoenix)

Other Names:	Vincent Well
Surface Location:	See Direction Plan
Bottom Hole Location:	See Direction Plan
Total Depth:	12,336' MD / 8,375' TVD

County:	Barbour
State:	West Virginia
AFE #:	API #:
RKB:	24
Ground Level:	1,675



Revision 1  
 Note: Not drawn to scale  
 Date Last Revised: 16-Dec-13  
 Ross Schweitzer  
 Cement Outside Casing Seal Assembly in Annulus

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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) Sandy Creek Quadrangle Fellowsville

Elevation 1675' County Barbour District Cove

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.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

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

*AS*  
2/19/2014 50W  
2/19/2014

Will closed loop system be used? If so, describe: Yes, it will contain all of 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. Vertical, freshwater, horizontal oil based mud

-If oil based, what type? Synthetic, petroleum, etc Synthetic oil based mud

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)

-Landfill or offsite name/permit number? Meadowfill Landfill, Bridgeport, WV

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 *Nathan Skeen*

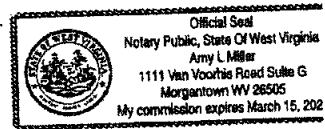
Company Official (Typed Name) Nathan Skeen

Company Official Title Designated Agent

Subscribed and sworn before me this 11 day of February, 2014

*Amy Miller* Notary Public

My commission expires 3-15-2022





Form WW-9

Operator's Well No. Vincent 203

**Mountaineer Keystone, LLC**

Proposed Revegetation Treatment: Acres Disturbed 11.2 Prevegetation pH \_\_\_\_\_

Lime 6 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 1000 lbs/acre

Mulch 3-4 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31 Tall Fescue	50	Fosters Permum Meadow Mix	50 * See attached sheet
_____	_____	_____	_____
_____	_____	_____	_____

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature] [Signature]

Comments: See seed & mulch ASAP.

Title: Oil & Gas Inspector Date: 2/19/2013

Field Reviewed?  Yes  No

**FOSTER PREMIUM MEADOW MIX**

**LOT LFM1203**

\* VARIETY NOT STATED

PURE SEED	VARIETY	ORIGIN	GERMINATION	HARD SEED	TOTAL GERMINATION & HARD SEED
42.63 %	HAYMATE XL ORCHARDGRASS*	OR	99 %	0 %	99 %
15.98 %	GULF ANNUAL RYEGRASS	OR	90 %	0 %	90 %
14.99 %	CLIMAX TIMOTHY	CN	85 %	0 %	85 %
14.70 %	ARCTIC GREEN PERENNIAL RYEGRASS	OR	90 %	0 %	90 %
7.96 %	MEDIUM RED CLOVER*	OR	80 %	10 %	90 %
.29 %	CROP SEED				
3.42 %	INERT MATTER				
.03 %	WEED SEED				

TESTED: 4-2013

NET WEIGHT: 50 LBS 22.68 KG.

**LA CROSSE FORAGE & TURF SEED LLC**

**P.O. BOX 995**

**AMS**

**LA CROSSE, WI. 54602**

NOXIOUS WEED SEED PER POUND: NONE

Notice To Buyer: We warrant that seeds sold in this container have been retained as required under State and Federal Seed Laws and that they conform to the label description. We make no other or further warranty, expressed or implied.

No liability hereunder shall be incurred unless the buyer in some respect, the venditor within a reasonable period after delivery and in excess of days, any conditions that might exist in a sample. Our liability on this warranty is limited in amount to the purchase price of the seeds or bulbs.

**Received**

MAR - 5 2014

# Mountaineer Keystone



Delivery Acknowledgement for  
Site Specific  
Safety and Environmental Plan  
For  
Vincent 203

Preston County, WV

Date Prepared: 2/11/2014

\_\_\_\_\_  
Mounatineer Keystone

*[Signature]* SDW 2/19/2014  
\_\_\_\_\_  
WV Oil and Gas Inspector

\_\_\_\_\_  
Title

*Oil & Gas Inspector*  
\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

*2/19/2014*  
\_\_\_\_\_  
Date

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CAD FILE: R:\030-2467 Mountaineer Keystone Vincent Quarry\030-2467-wp-rcv.dwg  
 PROJECT# 030-2259  
 PLOT DATE/TIME: 2/10/2014 - 8:30am  
 LAYOUT: 2467-wp9  
 USER: bmsmeyer

**THRASHER**  
 THE THRASHER GROUP INC.  
 CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES  
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 PHONE (304) 824-4108 • FAX (304) 824-7831

**Mountaineer**  
**Keystone**  
 LLC

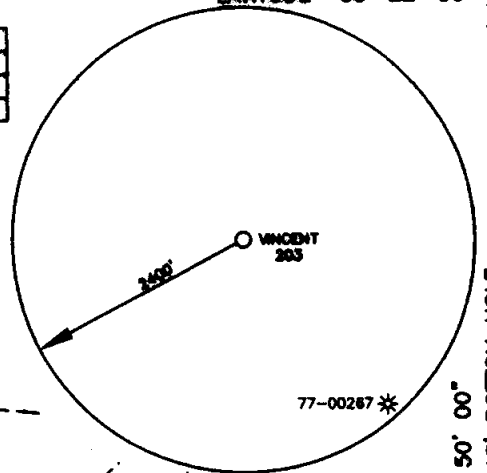
VINCENT WELL PAD  
 FELLOWSVILLE & THORNTON, WV  
 QUAD MAPS

SHEET No.  
**1**

11,321' TOP HOLE  
16,308' BOTTOM HOLE

LATITUDE 38° 22' 30"

A	17	18	19	20
B	17	18	19	20
C	20	18	17	16



LONGITUDE 79° 50' 00"  
10,413' BOTTOM HOLE  
6,908' TOP HOLE

TH BH

Denotes location of well on United States Topographic Map

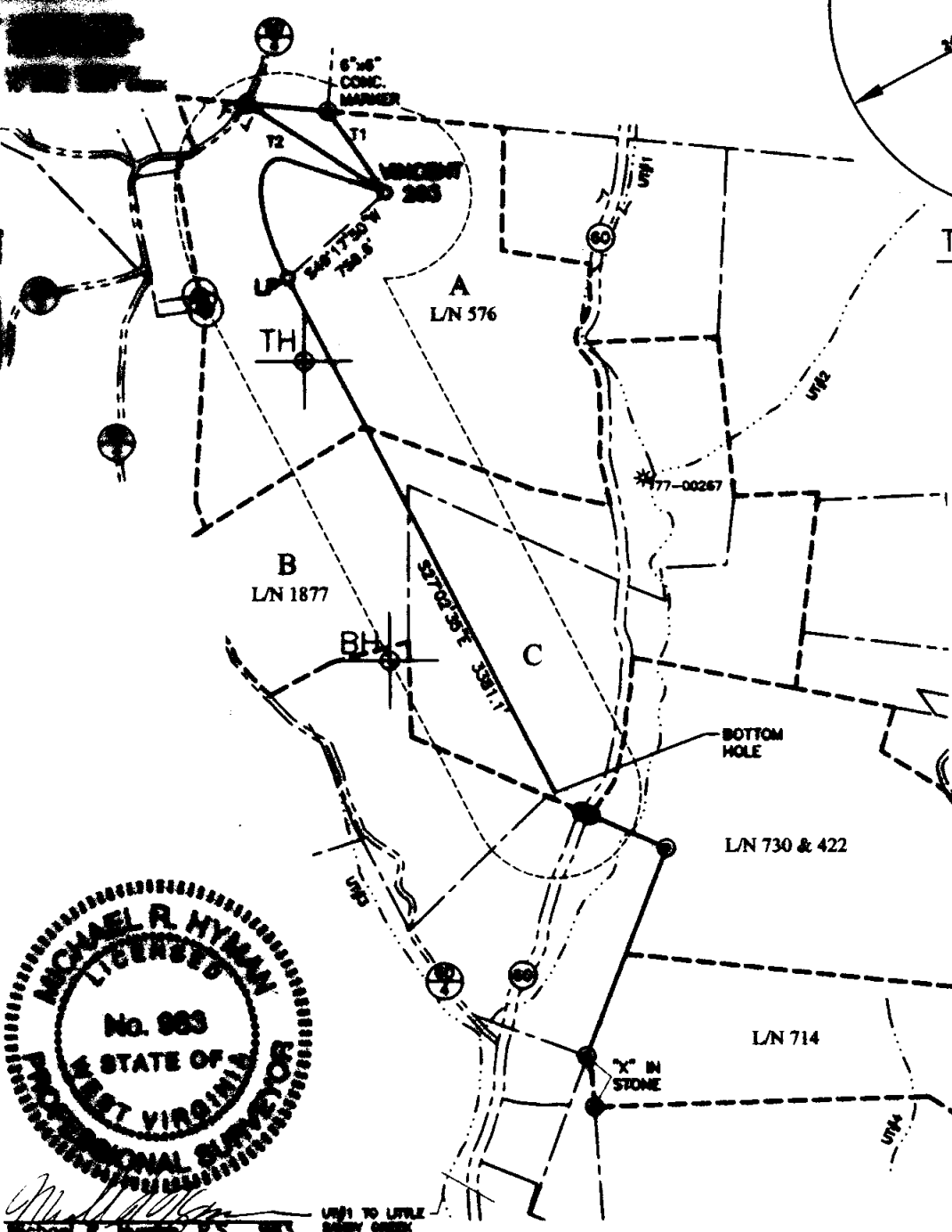
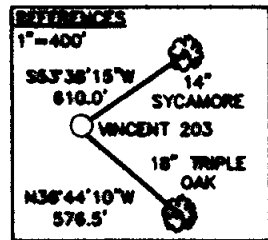
LEASE BOUNDARY  
500' BUFFER

WELL NO. VINCENT 203  
Landing Hole  
UTM COORDINATES - ZONE 17  
(NAD 83-METER)  
N:4356889.71  
E:597085.25

WELL NO. VINCENT 203  
Landing Hole  
UTM COORDINATES - ZONE 17  
(NAD 83-METER)  
N:4356745.82  
E:596912.30

WELL NO. VINCENT 203  
BOTTOM HOLE  
UTM COORDINATES - ZONE 17  
(NAD 83-METER)  
N:4355636.00  
E:597386.83

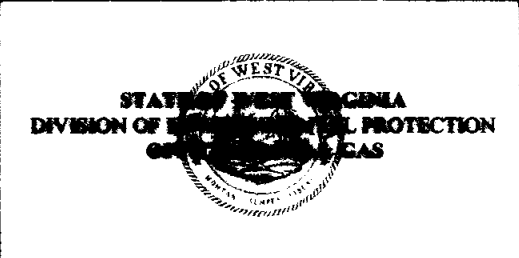
11	59747.20	597.5
12	59747.20	597.5



Michael R. Hyman, P.S. 983

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

FILE NO. 030-2457  
SCALE: 1"=1000'  
MINIMUM DEGREE OF ACCURACY: 1 in 2500  
PROMEN SOURCE OF ELEVATION: SURVEY GRADE GPS



DATE FEBRUARY 27, 2014  
OPERATOR'S WELL NO. VINCENT 203  
API WELL NO. 47 - 077 - 00609 H 6A  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  (IF "GAS"), PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION: 1675.08 WATER SHED: SANDY CREEK  
DISTRICT: LYON COUNTY: PRESTON  
QUADRANGLE: FELLOWSVILLE ACREAGE: 111.715 AC±  
SURFACE OWNER: DONALD VINCENT LEASE ACREAGE: 194.2 AC+  
OIL & GAS ROYALTY OWNER: RONALD VINCENT, FRANKLIN M. & PERRY A. JENNIS LEASE NO. 1877/576



PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PERFORATE NEW FORMATION  PLUG OFF OLD FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
TARGET FORMATION: MARCELLUS SHALE ESTIMATED DEPTH: 8,375' TVD / 12,336' MD

WELL OPERATOR: MOUNTAINEER KEYSTONE DESIGNATED AGENT: NATHAN SKEEN  
ADDRESS: 1111 VAN VOORHIS ROAD, SUITE G MORGANTOWN, WV 26505 ADDRESS: 1111 VAN VOORHIS ROAD, SUITE G MORGANTOWN, WV 26505

CAD FILE: E:\G30-2457 Mountaineer Keystone Vincent Survey\G30-2457 D. VINCENT PLATS RVD 2-27-14.dwg PLOT DATE/TIME: 3/13/2014 2:14 PM

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

Date of Notice Certification: 02/27/2014

API No. 47- \_\_\_\_\_  
Operator's Well No. Vincent 203.200  
Well Pad Name: Vincent

**Notice has been given:**

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

State: West Virginia  
County: Barbour  
District: Cove  
Quadrangle: Fellowsville  
Watershed: Sandy Creek

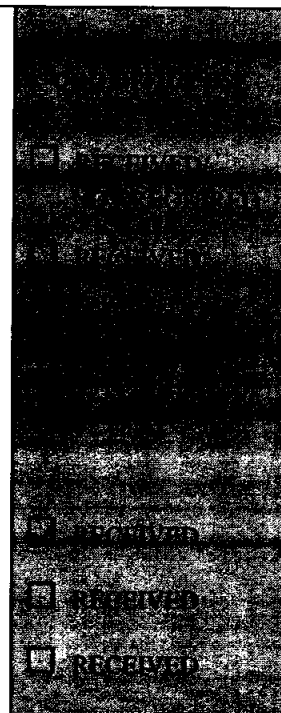
UTM NAD 83 Easting: 597088.12  
Northing: 4356905.09  
Public Road Access: CR 60/4  
Generally used farm name: Donald Vincent

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.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

\*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or  NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or  NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or  NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  
 WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION



**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.

Received

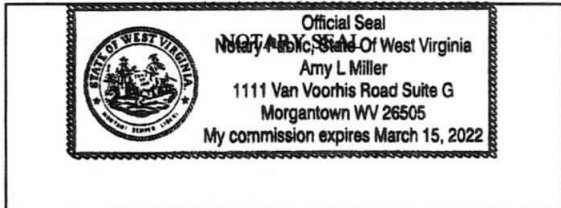
MAR - 5 2014

**Certification of Notice is hereby given:**

THEREFORE, I Nathan Skeen, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Mountaineer Keystone, LLC  
By: Nathan Skeen  
Its: Designated Agent *Nathan Skeen*  
Telephone: 304-241-4811

Address: 1111 Van Voorhis Road, Suite G  
Morgantown, WV 26505  
Facsimile: 304-241-4867  
Email: amiller@mkeystone.com



Subscribed and sworn before me this 18<sup>th</sup> day of February, 2014.

Amy L. Miller Notary Public

My Commission Expires 3-15-2022

**Oil and Gas Privacy Notice:**

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

Received

MAR - 5 2014

**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:** 2/27/14      **Date Permit Application Filed:** 2/28/14

**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: Donald Vincent ✓  
Address: 8018 Cuba Drive  
Padadena, MD 21122

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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

Name: n/a  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: n/a  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: ACIN, LLC ✓  
Address: 5260 Irwin Road  
Huntington, WV 25705

COAL OPERATOR

Name: ACIN, LLC ✓  
Address: 5260 Irwin Road  
Huntington, WV 25705

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

Name: n/a  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: n/a  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

Received

MAR - 5 2014



**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 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

Received

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. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

MAR - 5 2014

**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

MAR - 5 2014

WW-6A  
(8-13)

API NO. 4707700609  
OPERATOR WELL NO. Vincent 203-466  
Well Pad Name: Vincent

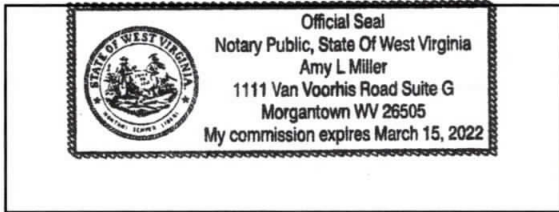
**Notice is hereby given by:**

Well Operator: Mountaineer Keystone, LLC  
Telephone: 304-241-4811  
Email: amiller@mkeystone.com

Address: 1111 Van Voorhis Road, Suite G  
Morgantown, WV 26505  
Facsimile: 304-241-4867

**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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 18<sup>th</sup> day of February 2014.

Amy L. Miller Notary Public

My Commission Expires 3-15-2022

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Operator Well No. Vincent, 203

**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:** 04/09/2014      **Date Permit Application Filed:** 02/28/2014

**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:** Donald Vincent  
**Address:** 8018 Cuba Drive  
Pasadena, MD 21222

**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>West Virginia</u>	UTM NAD 83 Easting:	<u>597085.25</u>
County:	<u>Preston</u>	Northing:	<u>4356899.71</u>
District:	<u>Lyon</u>	Public Road Access:	<u>CR 60/4</u>
Quadrangle:	<u>Fellowsville</u>	Generally used farm name:	<u>Donald Vincent</u>
Watershed:	<u>Sandy Creek</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Operator:** Mounlaineer Keystone, LLC  
**Telephone:** 304-241-4811  
**Email:** amiller@mkeystone.com

**Address:** 1111 Van Voorhis Road, Suite G  
Morgantown, WV 26505  
**Facsimile:** 304-241-4867

**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](mailto:depprivacyofficer@wv.gov).

RECEIVED  
APR 9 2014  
Office of Oil and Gas  
WV Dept. of Environmental Protection

**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:** 02/19/2014      **Date Permit Application Filed:** 02/20/2014

**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: Donald Vincent  
Address: 8018 Cuba Drive  
Padadena, MD 21122

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>West Virginia</u>	UTM NAD 83	Easting: <u>597088.12</u>
County: <u>Barbour</u>		Northing: <u>4356905.09</u>
District: <u>Cove</u>	Public Road Access: <u>CR 60/4</u>	
Quadrangle: <u>Fellowsville</u>	Generally used farm name: <u>Donald Vincent</u>	
Watershed: <u>Sandy Creek</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Mountaineer Keystone, LLC  
Telephone: 304-241-4811  
Email: amiller@mkeystone.com

Address: 1111 Van Voorhis Road, Suite G  
Morgantown, WV 26505  
Facsimile: 304-241-4867

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Received

MAR - 5 2014



## 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

February 6, 2014

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

Subject: DOH Permit for the Donald Vincent Pad, Preston County

Donald Vincent 203

Donald Vincent 204

Donald Vincent 205

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #04-2011-1012 for the subject site to Mountaineer Keystone, LLC for access to the State Road for the well site located off of Preston County Route 60/4.

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

Received

MAR - 5 2014





Vincent 203-205  
Preston County, WV

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

Received

MAR - 5 2014

4707700609



# MOUNTAINEER KEYSTONE, LLC.

## CONSTRUCTION PLANS

FOR THE

# VINCENT WELL PAD & ACCESS ROAD

## WELLS 203, 204, 205

### PRESTON COUNTY, WEST VIRGINIA

### FEBRUARY 2014

*See notes  
Pages 6, 7, & 13  
Additional permits may  
be required.*

*SDW  
2/26/2014*



#### SHEET INDEX

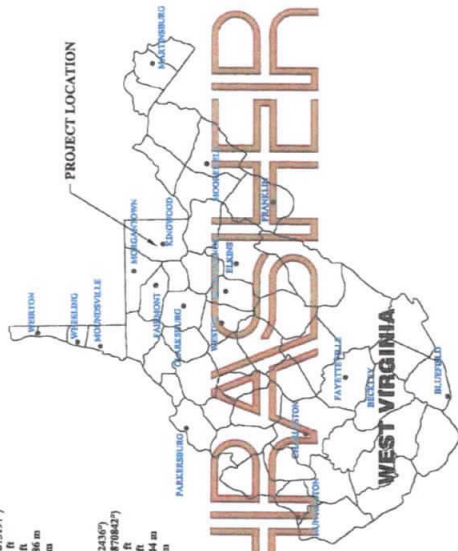
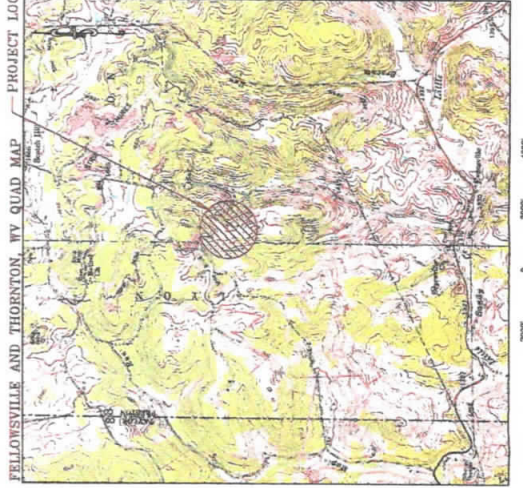
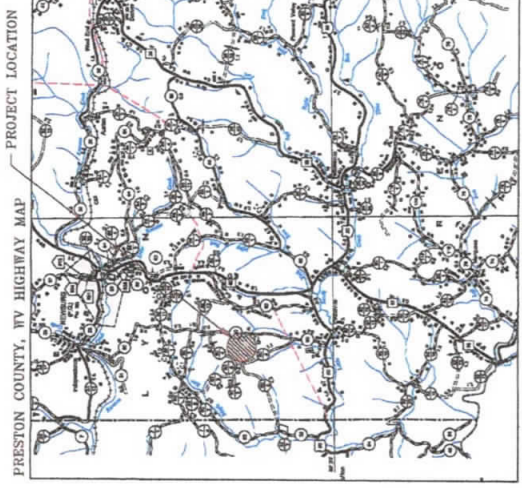
SHEET	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	OVERALL GEOMETRIC LAYOUT
4	WELL PAD GEOMETRIC LAYOUT
5	OVERALL SITE GRADING AND E&S PLAN
6	ACCESS ROAD PLAN AND PROFILE
7-8	WELL PAD PLAN
9-12	CROSS SECTIONS
13	WELL PAD PROFILE
14	WELL PAD SECTIONS
15-16	WELL PAD DETAILS
17	SITE RECLAMATION
18-20	DETAILS

#### VINCENT BOREHOLE COORDINATES

Well Number	North	East	Elevation	Latitude	Longitude
203	312052.4587	1862985.0603	1075.08	N 39° 21' 21.94"	W 79° 52' 23.37"
204	312062.4451	1863004.4453	1075.08	N 39° 21' 22.25"	W 79° 52' 23.12"
205	312068.9531	1862994.7228	1075.08	N 39° 21' 22.12"	W 79° 52' 23.25"

**WELL PAD CENTER**  
 Latitude = N 39° 21' 22.46" (39.362397)  
 Longitude = W 79° 52' 23.51" (79.873197)  
 WY8-N Northing = 312064.8094 ft  
 WY8-N Easting = 1863000.0000 ft  
 UTM 83-17 Northing = 4356015.236 m  
 UTM 83-17 Easting = 597981.821 m

**ACCESS ROAD BEGINNING**  
 Latitude = N 39° 21' 44.77" (39.362397)  
 Longitude = W 79° 52' 15.03" (79.878847)  
 WY8-N Northing = 314338.8676 ft  
 WY8-N Easting = 1863609.5864 ft  
 UTM 83-17 Northing = 4356015.236 m  
 UTM 83-17 Easting = 597976.822 m



APPROVED FOR PERMITS DATE: 10/05/13 BY: RM  
 PERMIT APPROVED DATE: 07/06/12 BY: WYDEP  
 APPROVED FOR CONSTRUCTION DATE: 01/25/14 BY: RM

REVISION NUMBER	REVISIONS	BY	DATE	DESCRIPTION
1	ALL	RM	12/13/2013	PERMIT MODIFICATION DRAWINGS
2	4.4, 13	RM	12/13/2013	REVISED BOREHOLES
3	6, 13	RM	01/01/2014	CONNECTED LEGEND TEXT
4	20	RM	02/18/2014	ADDED BUMP DETAIL



THE THRASHER GROUP, INC.  
 600 WHITE OAK BLVD.  
 PHONE (304) 624-1108 FAX (304) 624-1281

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## LeMasters, Ashley E

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**From:** Amy Miller <amiller@mkeystone.com>  
**Sent:** Thursday, May 29, 2014 3:36 PM  
**To:** LeMasters, Ashley E  
**Subject:** RE: Question regarding Plats

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hey there!

Sorry for the delay in response regarding the Vincent Corps JD. I just got off the phone with Rob Milne from Thrasher. I questioned the last paragraph of the letter where it says that the study is preliminary, and that we would need to obtain a JD. He is telling me that the language is standard for their company. If there is no impact, there is no need to go to the ACOE. There is no impact on this pad. Do you want him to take that paragraph out, or is there something else that I need to do?

Let me know. Thanks!!

Amy L. Miller  
Regulatory Compliance Specialist  
Mountaineer Keystone, LLC  
6031 Wallace Road Extension  
Suite 300  
Wexford, PA 15090  
724-940-1100  
[amiller@mkeystone.com](mailto:amiller@mkeystone.com)

---

**From:** LeMasters, Ashley E [<mailto:Ashley.E.LeMasters@wv.gov>]  
**Sent:** Thursday, May 22, 2014 11:10 AM  
**To:** Amy Miller  
**Subject:** RE: Question regarding Plats

Hey Amy,

No you would not need to get a new permit if the total vertical depth is off by a little. It will however need to be shown on the WW-35 and the As-Drilled Plat as whatever actually was drilled in the field. Although, if the new TVD goes more than 100' into the Onondaga, I would recommend getting a new permit as it would now need a deep well. Hope that answers your questions!

On another note, are you still waiting for a Corps JD for Vincent pad? I have attached the letter referencing this. Thanks!

*Ashley E. LeMasters*

Environmental Resource Specialist  
Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE

Charleston, WV 25304  
Phone: 304-926-0499 Ext. 1495  
[Ashley.E.LeMasters@wv.gov](mailto:Ashley.E.LeMasters@wv.gov)

---

**From:** Amy Miller [<mailto:amiller@mkeystone.com>]  
**Sent:** Thursday, May 22, 2014 10:26 AM  
**To:** LeMasters, Ashley E  
**Subject:** Question regarding Plats

Hi there!

I am hoping you can answer a question for me. I mentioned to you that we are going to modify the Howdershelt permits to change the location of the wellheads. And that SLS is doing the work for us. I am having them fix some information on the plats before I send them to you to look at, mainly because they have some of the geology information wrong. One question that I have is this. They had our TVD listed wrong on nearly all 12 of the plats. When I questioned them on the reasoning for this, I was told that they always add a 10 foot buffer onto the TVD, because if we end up drilling deeper than what the TVD is listed as on the plat, we would have to re-permit the well. I'm trying to find where that regulation comes from. Do you know? If you could site something for me, I would greatly appreciate it.

Thanks!

Amy L. Miller  
Regulatory Compliance Specialist  
Mountaineer Keystone, LLC  
6031 Wallace Road Extension  
Suite 300  
Wexford, PA 15090  
724-940-1100  
[amiller@mkeystone.com](mailto:amiller@mkeystone.com)

Sam Ward Insp. 4707700609  
John Shackley

Horizontal 6A Well Permit App. Checklist:

Received Date: 3/5/2014 API: 7700609  
 Operator: MOUNTAINEER KEYSTONE, LLC WELL: 203 Vincent 203  
 Pad Name: VINCENT End Comment Period: 4/5/13  
 Pad Built: Yes  No Date Reviewed: 5/2/14 INT. AL

**CHECKLIST FOR FILING A PERMIT**  
**Horizontal 6A Well**

Please include these required elements in the Horizontal Well 6A applications, in order listed below. Do not use staples.

First Well	Subsequent Well
10,150.00 <input type="checkbox"/>	5,150.00 <input checked="" type="checkbox"/>

Check#: 0000103885

wrong county district

- Fees Paid
- Checklist / Cover letter
- WW-6B Notice of Application  Field Approved
- Cement Additives
- Well Bore Schematic (not required)
- WW-9 Fluids/Cuttings Disposal and Reclamation Plan  Field Approved
- Site Safety Plan *-hard copy - needs scanned*  Field Approved
- Water Management Plan *- not on Q - not approved yet*  DWWM Approval
- Topographic map showing access road
- Mylar Plat (Signed and sealed) (Surface Owner matches WW-6A)  Plat Spotted
- WW-6A1 Lease Information
- Road Crossing Letter (if drilling under road)
- WW-PN Application Notice by Publication
- Public Notice (dated copy of advertisement or affidavit of public notice)
- WW-6AC Notice Certifications and Waivers
- WW-6A Notice of Application notarized w/ any attachments
- Topographic Map with labeled surrounding water wells (not required)
- Certified Mail receipts for WW-6A
- WW-6A3 Notice of Entry for Plat Survey (if one was conducted)

Talk to Goret Steve about this

Q about water map permits

Building Pad under Vertical Permit  
 API 7700588  
 Vincent 101  
 Will let Permit Expire + this permit will be used to drill ~~vertical~~ horizontal well.

Horizontal 6A Well Permit App. Checklist:

API: 7700609

- Certified Mail receipts for WW-6A3 ✓
- WW-6A4 Notice of Intent to Drill (if no WW-6A3)
- Certified Mail receipts for WW-6A4 ✓
- WW-6A5 Notice of Planned Operation ✓ - date of notice is over a month later than it should have been
- Certified Mail receipts for WW-6A5 ✓
- WW-6RW Well Location Restriction Waiver (if applicable)
- WW-6RW Voluntary Statement of No Objection (if applicable)
  - Waiver for Surface Owner at Wellhead
  - Waiver for Surface Owner for Roads or other Disturbances
  - Waiver for Coal Owner, Operator or Lessee
  - Waiver for surface owner for Impoundment or Pit
  - Waiver for Surface Owner or Water Purveyor within 1500 feet of Center of Pad
  - Waiver for Natural gas Storage Field Operator
- DOH Road Bonding Letter ~~NO~~ ✓
- Frac Additives List of Chemical Names & CAS#s
- Site Construction, Reclamation, Erosion & Sediment Control Plans  DEP Engineer Approved
- MSDS Sheets CD

CD is on this vertical to Horiz. - Insp sheets on CD?

**Reviewer outside checks:**

- Comments - Public, Surface Owner, Water Well Purveyor
- Bond (\$250,000)
- Operator is registered with the SOS
- Workers Compensation / Unemployment Insurance account is OK
- Professional Engineer/Company has COA
- Check for mine data at proposed coordinates
- Check for floodplain data at proposed coordinates

Horizontal 6A Well Permit App. Checklist:

API: 7700609

- IMP-1A Associated Pit or Impoundment (if applicable)
- WW-6A7 Well Restrictions Form w/ Signature
  - At Least 100 Feet from Pad and LOD (including any ES Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland
    - DEP Waiver and Permit Conditions
  - At Least 300 Feet from Pad and LOD (including any ES Control Feature) to any Naturally Producing Trout Stream
    - DEP Waiver and Permit Conditions
  - At Least 1000 Feet from Pad and LOD (including any ES Control Feature) to any Groundwater Intake or Public Water Supply
    - DEP Waiver and Permit Conditions
  - At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled
    - Surface Owner Waiver and Recorded with County Clerk, OR
    - DEP Variance and Permit Conditions
  - At Least 625 Feet from an Occupied Dwelling Structure to the Center of the Pad
    - Surface Owner Waiver and Recorded with County Clerk, OR
    - DEP Variance and Permit Conditions
  - At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad
    - Surface Owner Waiver and Recorded with County Clerk, OR
    - DEP Variance and Permit Conditions