



**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

August 13, 2014

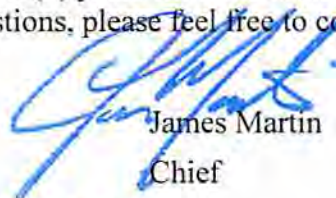
**WELL WORK PERMIT**  
**Vertical Well**

This permit, API Well Number: 47-10303024, issued to MEADOW RIDGE DEVELOPMENT, 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: MRD #1  
Farm Name: WHEELING JESUIT UNIVERSITY  
**API Well Number: 47-10303024**  
**Permit Type: Vertical Well**  
Date Issued: 08/13/2014

# PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

## CONDITIONS

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. 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.



10303024

WW - 2B  
(Rev. 8/10)

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

4 548

1) Well Operator: Meadow Ridge Development, LLC  
Operator ID: [ ] County: Wetzel 103 District: Grant Quadrangle: Pine Grove 548

2) Operator's Well Number: MRD #1 3) Elevation: 745'

4) Well Type: (a) Oil \_\_\_\_\_ or Gas X  
(b) If Gas: Production X / Underground Storage \_\_\_\_\_  
Deep \_\_\_\_\_ / Shallow X

5) Proposed Target Formation(s): Gordon Proposed Target Depth: 2,970'

6) Proposed Total Depth: 2,970' Feet Formation at Proposed Total Depth: Gordon

7) Approximate fresh water strata depths: 50'

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 595'

10) Approximate void depths, (coal, Karst, other): N/A

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)  
Construct/modify well site (Including pad and pits). Mobilize drilling rig. Drill a vertical well with below casing program.  
Evaluate well. Run and cement production casing. Demobilize drilling rig. Mobilize completion equipment. Complete well:  
perforate, fracture stimulate, clean-out, run tubing, unload & test well. Reclaim site.

13) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	20"			(3 Joints) 90'	(3 Joints) 90'	CTS
Fresh Water	13 5/8"			300' +	300' +	CTS
Coal	9.58"			970'	970'	CTS
Intermediate	7"			2,100'	2,100'	100 Sacks
Production	4.5"			2,700'	2,700'	By Rule 38 CSR 18-11.1
Tubing						
Liners						

DMH  
9-24-14

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Office of Oil and Gas

Packers: Kind: \_\_\_\_\_  
Sizes: \_\_\_\_\_  
Depths Set \_\_\_\_\_

JUL 28 2014

WW-2A  
(Rev. 6-14)

1.) Date: 7/3/14  
2.) Operator's Well Number MRD #1  
State County Permit  
3.) API Well No.: 47- 103 -

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

4) Surface Owner(s) to be served:  
(a) Name Wheeling Jesuit University Inc. Address 316 Washington Ave. Wheeling, WV 26003  
(b) Name \_\_\_\_\_ Address \_\_\_\_\_  
(c) Name \_\_\_\_\_ Address \_\_\_\_\_  
6) Inspector Derek Hauht Address P.O. Box 85 Smithville, WV 26178 Telephone (304) 206-7613

5) (a) Coal Operator  
Name Wheeling Jesuit University Inc. Address 316 Washington Ave. Wheeling, WV 26003  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_ Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_ Address \_\_\_\_\_

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas  
**OR**

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4-D on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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.

RECEIVED  
Office of Oil and Gas

JUL 28 2014

WV Department of  
Environmental Protection

Subscribed and sworn before me this 24<sup>th</sup> day of July 2014

Well Operator Meadow Ridge Development, LLC  
By: GARTH PERKEY  
Its: GENERAL MANAGER AGENT  
Address: 848 Husky Highway SUITE #2 FAYMONT WV 26554  
Telephone: (304) 363-4000, (304) 826-0919  
Email: GPerkey@mrdevllc.com

Notary Public  
Commissioner

My Commission Expires 6/3/2020  
Oil and Gas Privacy Notice

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

08/15/2014

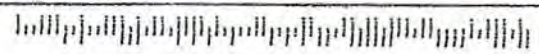


SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Agent  <input type="checkbox"/> Addressee  <i>X Edwin F Koll</i></p> <p>B. Received by (Printed Name)  <i>Edwin F Koll</i></p> <p>C. Date of Delivery  <i>7/25/14</i></p>
<p>1. Article Addressed to:</p> <p>Wheeling JESUIT UNIVERSITY  W.J.U.  316 WASHINGTON AVE  Wheeling, WV 26003</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No  If YES, enter delivery address below:</p> <p>3. Service Type  <input type="checkbox"/> Certified Mail <input checked="" type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number  (Transfer from servc)</p>	<p>EG213593427US</p>

PS Form 3811, February 2004 102595-02-M-1540

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Agent  <input type="checkbox"/> Addressee  <i>X Edwin F Koll</i></p> <p>B. Received by (Printed Name)  <i>Edwin F Koll</i></p> <p>C. Date of Delivery  <i>7/25/14</i></p>
<p>1. Article Addressed to:</p> <p>Wheeling JESUIT UNIVERSITY  W.J.U.  316 WASHINGTON AVE  Wheeling, WV 26003</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No  If YES, enter delivery address below:</p> <p>3. Service Type  <input type="checkbox"/> Certified Mail <input checked="" type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
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PS Form 3811, February 2004 102595-02-M-1540



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Office of Oil and Gas

JUL 28 2014

WV Department of  
Environmental Protection

08/15/2014

SURFACE OWNER WAIVER

County Wetzel Operator Meadow Ridge Development, LLC  
Operator well number MRD #1

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

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

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

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure 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.

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

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

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

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through 9d including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature Date \_\_\_\_\_

\_\_\_\_\_  
Company Name  
By \_\_\_\_\_  
Its \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_  
Print Name **RECEIVED  
Office of Oil and Gas**

\_\_\_\_\_  
Signature Date \_\_\_\_\_

**JUL 28 2014**





WW-2A1  
(Rev. 1/11)

Operator's Well Number MRD #1

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

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

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

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
SEE ATTACHED	Reliable Wetzel Energy Production, LLC	1/8	SEE ATTACHED
Reliable Wetzel Energy Production, LLC	Meadow Ridge Development, LLC	7/8	107A-711

**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

Received  
JUL 31 2014

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: Meadow Ridge Development, LLC  
By: Its: Keith Parker  
General Manager - AGENT



## Attachment for WW-2A1

<u>Grantor, Lessor, Etc.</u>	<u>Grantee, Lessee, Etc.</u>	<u>Royalty</u>	<u>Book/Page</u>
Wheeling Jesuit University	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-361
Barbara Stuter Murray	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-493
Edwina Lantz Carlson	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-479
Lewis Edwin Lantz III	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-542
Samuel Owen Lantz	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-487
William Alexander Lantz	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-540
Jack Lewis Lantz	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-489
Mary Elaine Swiger	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-481
Robert Keith Stuter	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-544
Teresa Stuter Fortin	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-564
Chester Richmond Jr.	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-491
Margery Beth Millier	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-485
Suzanne Denelle Miller	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-566
Melinda M. Matthews	Reliable Wetzel Energy Production, LLC	P/O 1/8	91A-483
Reliable Wetzel Energy Production, LLC	Meadow Ridge Development, LLC	7/8	107A-711

Received

JUL 31 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

08/15/2014

10303024

WW-2B1  
(5-12)

Well No. MRD #1 \_\_\_\_\_

West Virginia Department of Environmental Protection  
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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

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

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

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

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

Certified Laboratory Name Reliance Laboratories- Bridgeport, WV  
Sampling Contractor Hupp Surveying & Mapping

Well Operator Meadow Ridge Development, LLC  
Address 848 Husky Highway Suite #2  
Fairmont, WV 26554  
Telephone (304) 363-4000

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

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Office of Oil and Gas

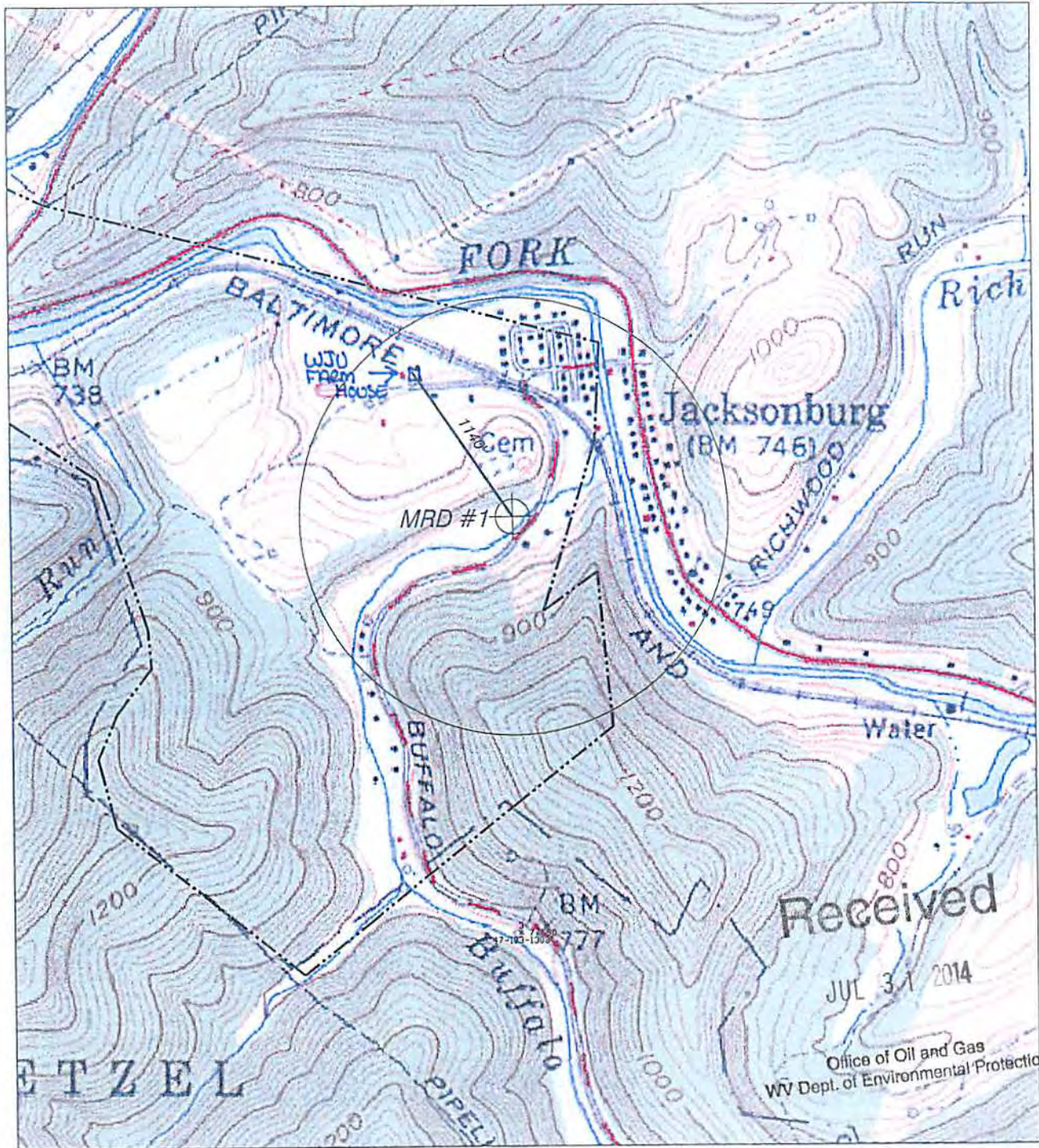
JUL 28 2014

WV Department of  
Environmental Protection

08/15/2014



# MEADOW RIDGE DEVELOPMENT, LLC. MRD #1 Water



NORTH

### HUPP Surveying & Mapping

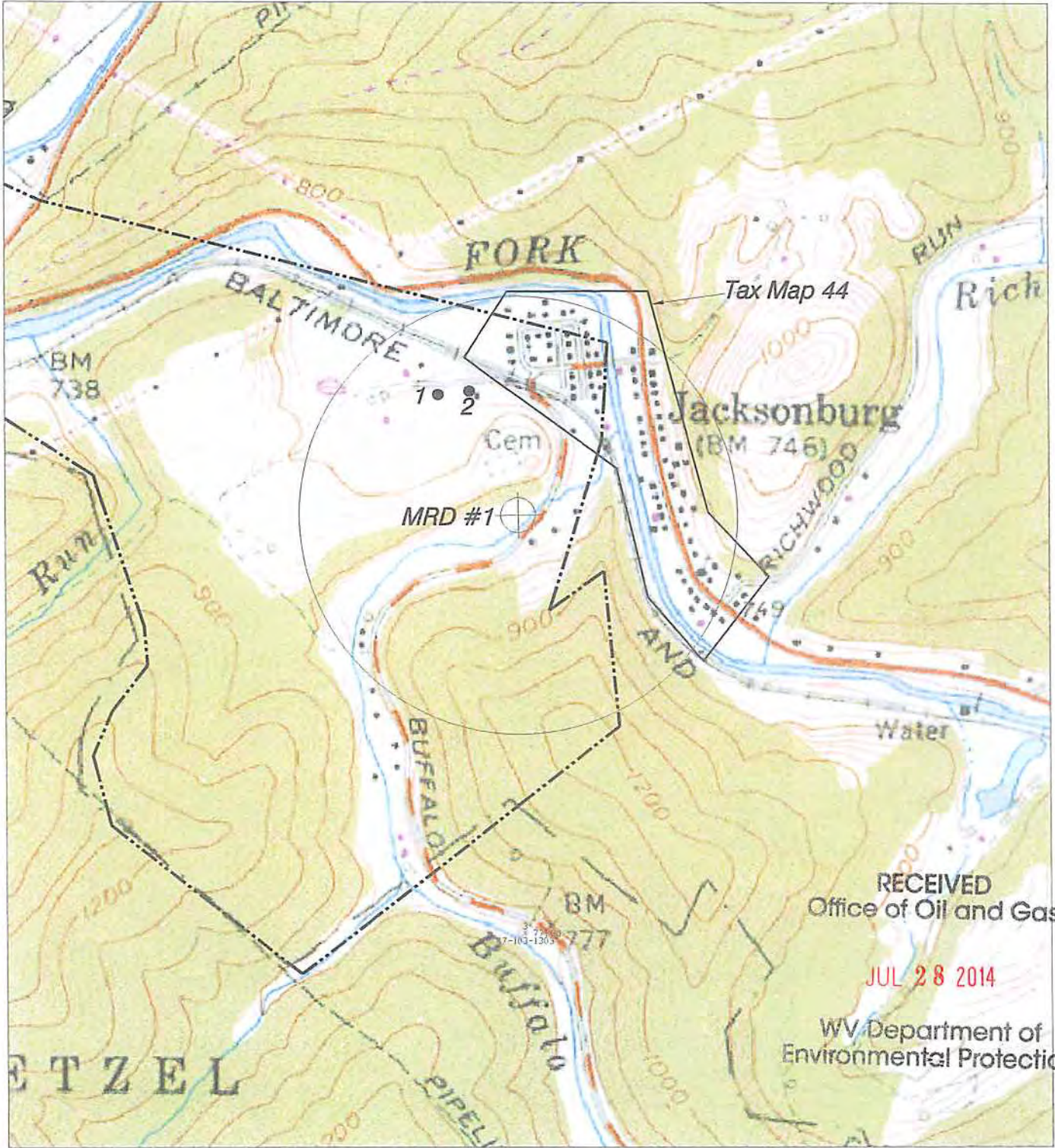
P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'  
Pine Grove Quad

Meadow Ridge  
Development, LLC.  
848 Husky Highway Suite #2  
Fairmont, WV 26554



# MEADOW RIDGE DEVELOPMENT, LLC. MRD #1



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WV Department of  
Environmental Protection

DMH 9-24-14

### HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'  
Pine Grove Quad

Meadow Ridge  
Development, LLC.  
848 Husky Highway Suite #2  
Fairmont, WV 26554

08/15/2014



10303024

WW-9  
(5/13)

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 103  
Operator's Well No. MRD #1

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Meadow Ridge Development, LLC OP Code \_\_\_\_\_

Watershed (HUC 10) Buffalo Run Quadrangle Pine Grove 7.5'

Elevation 745' County \_\_\_\_\_ District Grant

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No X

Will a pit be used for drill cuttings? Yes X No \_\_\_\_\_

If so, please describe anticipated pit waste: Drill cuttings

Will a synthetic liner be used in the pit? Yes X No \_\_\_\_\_ If so, what ml.? 20

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 \_\_\_\_\_ )

Will closed loop system be used? No

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air & Freshwater

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? Clay Stay

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in Pit

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Lime

-Landfill or offsite name/permit number? \_\_\_\_\_

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.

RECEIVED  
Office of Oil and Gas  
JUL 28 2014  
WV Department of Environmental Protection

Company Official Signature X

Company Official (Typed Name) GARTH FERKEY

Company Official Title GENERAL MANAGER - AGENT

Subscribed and sworn before me this 27<sup>th</sup> day of July, 2014

Notary Public Commissioner for Oil & Gas

My commission expires 6/3/2020

08/15/2014

6-B

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Meadow Ridge Development, LLC OP Code \_\_\_\_\_

Watershed (HUC 10) Buffalo Run Quadrangle Pine Grove 7.5'

Elevation 745' County \_\_\_\_\_ District Grant

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No X

Will a pit be used for drill cuttings? Yes X No \_\_\_\_\_

If so, please describe anticipated pit waste: Drill cuttings

Will a synthetic liner be used in the pit? Yes X No \_\_\_\_\_ If so, what ml.? 20

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 \_\_\_\_\_)

Will closed loop system be used? No

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air & Freshwater

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? Clay Stay

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in Pit

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Lime

-Landfill or offsite name/permit number? \_\_\_\_\_

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 of the significant penalties for submitting false information, including the possibility of fine or imprisonment.

RECEIVED  
Office of Oil and Gas  
JUL 28 2014  
WV Department of Environmental Protection

Company Official Signature [Signature]

Company Official (Typed Name) GARTH PERKEY

Company Official Title GENERAL MANAGER - AGENT

Subscribed and sworn before me this 27<sup>th</sup> day of July, 2014

Notary Public Commissioner David U

My commission expires 6/3/2020

6-B



Form WW-9

Operator's Well No. MRD #1

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 Ton lbs/acre (500 lbs minimum)

Mulch Hay 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Oil + Gas Inspector Date: 7-24-14

Field Reviewed?  Yes  No

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JUL 28 2014

WV Department of  
Environmental Protection

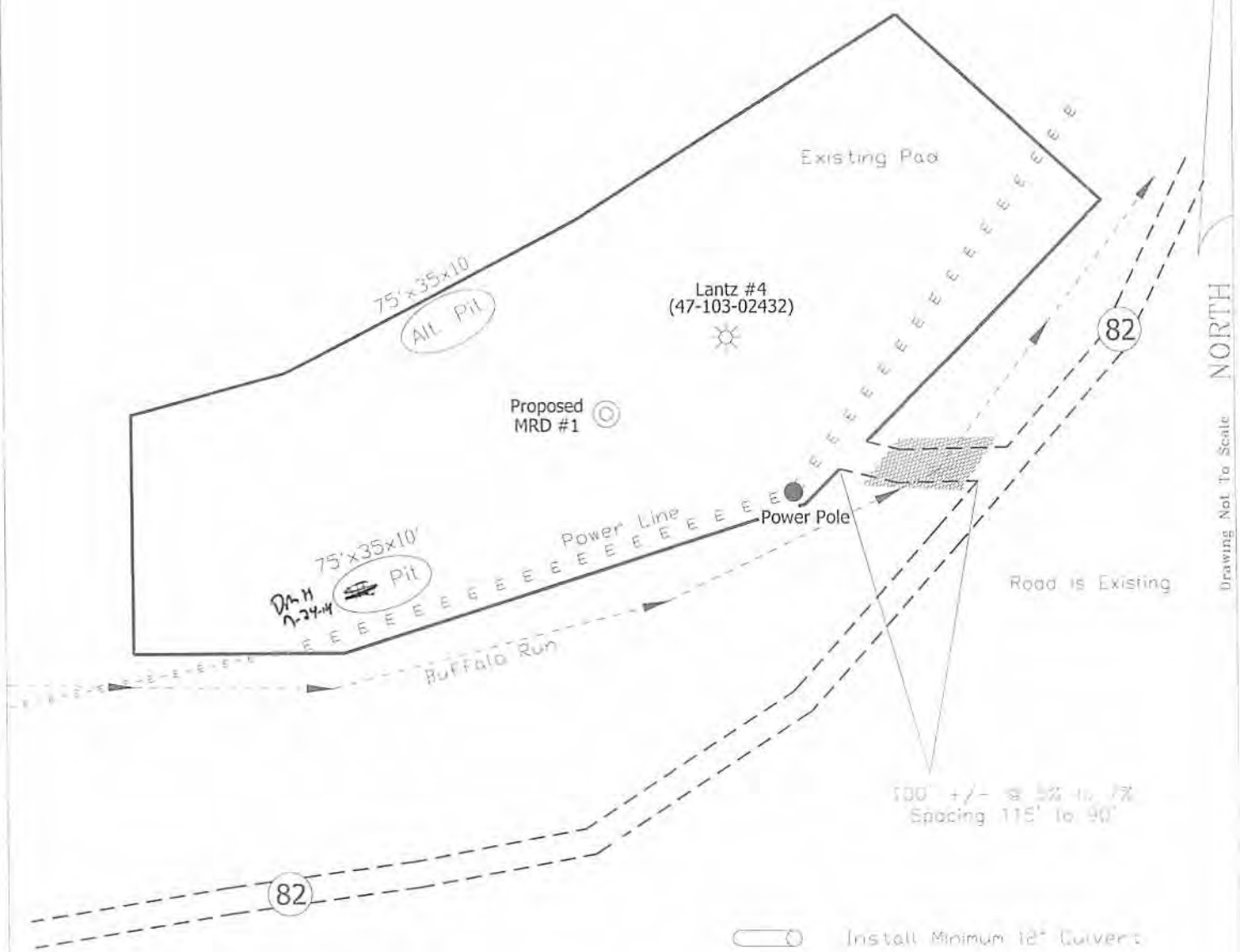
08/15/2014

10303024

Form W-9

Page 1 of 1

# MEADOW RIDGE DEVELOPMENT, LLC. PROPOSED MRD #1



Drawing Not To Scale NORTH

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*Dm-H*  
*7-24-14*

JUL 28 2014

WV Department of  
Environmental Protection

Install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP OIL AND GAS SMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV DOT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE DOT.

SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV DEP OIL AND GAS SMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT.

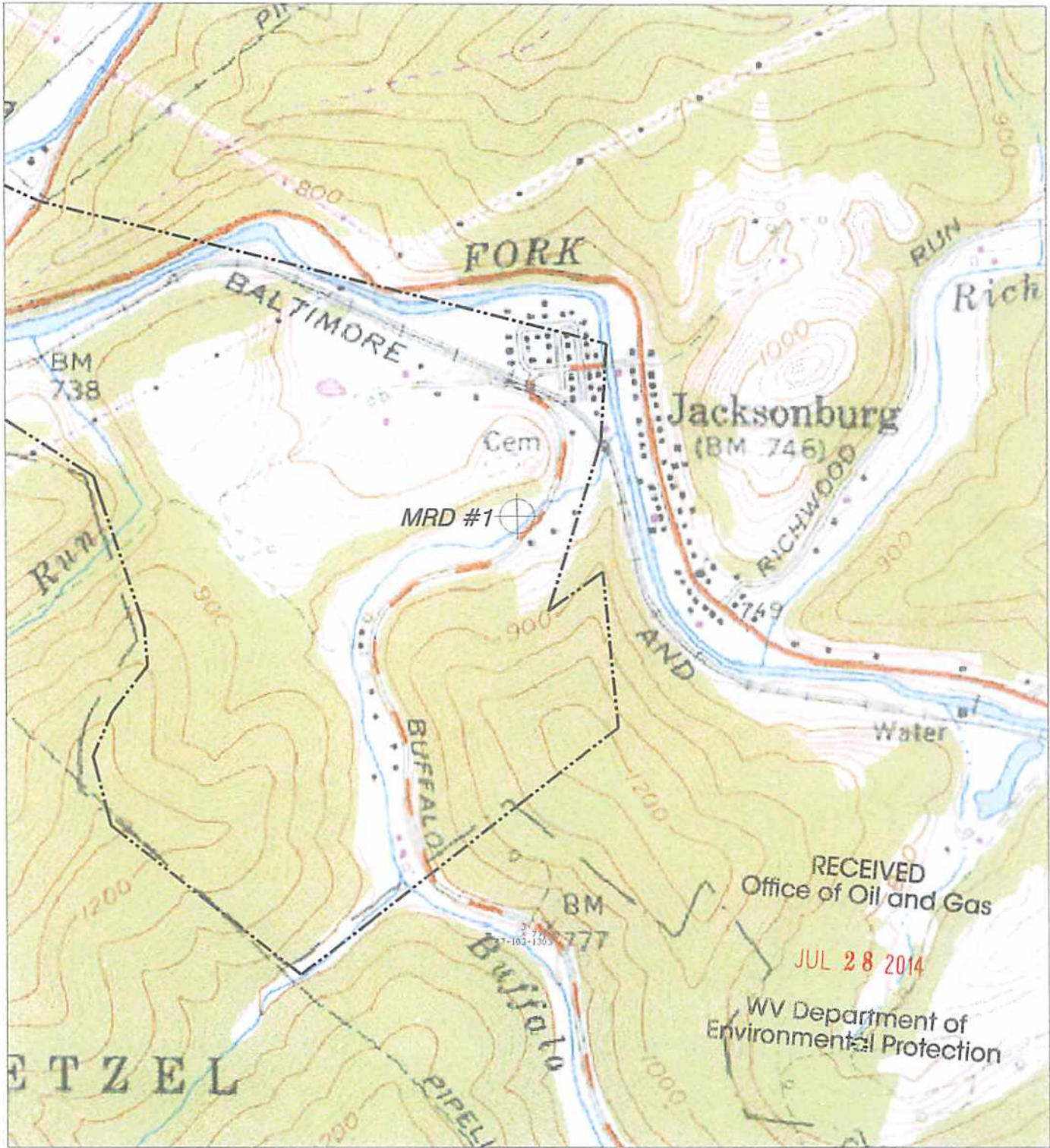
TEMPORARILY SLEED AND MULDY ALL SLOPES AFTER CONSTRUCTION OF LOCATION CUT AND STACK ALL TIMBER ABOVE 6" INCHES IN DIAMETER AND THICKER. STACK BRUSH BELOW VEGETATION FOR SEDIMENT CONTROL.

<b>HUPP Surveying &amp; Mapping</b>	Drafted BY:	Date Drafted:	Job Number:
P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net	DB	07/07/14	08/15/2014

9-B



# MEADOW RIDGE DEVELOPMENT, LLC. MRD #1



NORTH

RECEIVED  
Office of Oil and Gas  
JUL 28 2014  
WV Department of  
Environmental Protection

### HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

DmH 7-24-14

1" = 1000'  
Pine Grove Quad

Meadow Ridge  
Development, LLC.  
848 Husky Highway Suite #2  
Fairmont, WV 26554

08/15/2014



# MRD #1

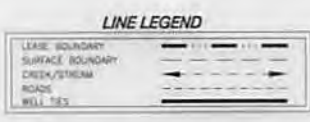
LONGITUDE 80°37'30"  
LAT. 39°31'45.6"

**MRD #1 SURFACE HOLE**

**STATE PLANE COORDINATES NORTH ZONE-NAD 27**  
(N) 376965  
(E) 1676928

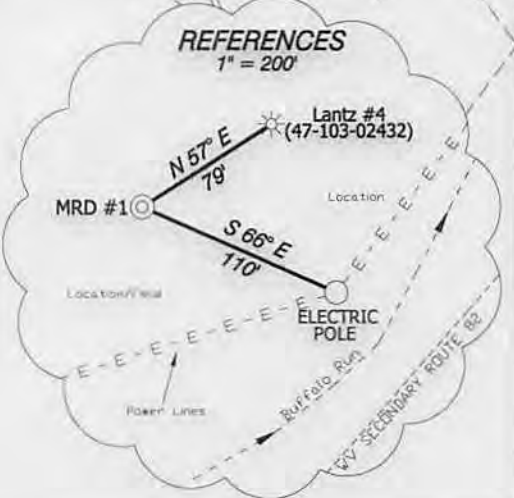
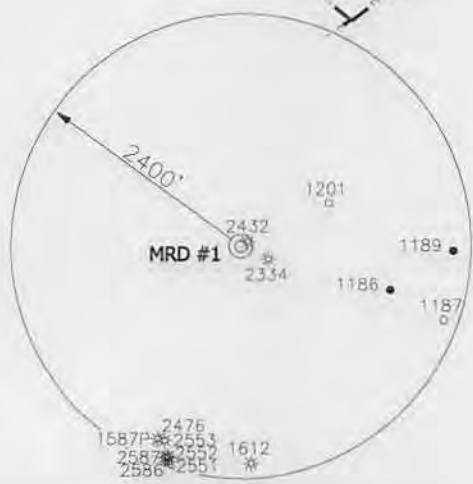
**L & L DECIMAL NAD 27**  
39.529334  
80.645400

**UTM (NAD 83) ZONE 17 METERS**  
4375589  
530491



### NOTES ON SURVEY

- NO DWELLINGS WITHIN 625' WERE FOUND.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
- WELL LAT./LONG. ESTABLISHED BY SG-GPS(OPUS).
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WETZEL COUNTY IN JUNE, 2014 AND INFORMATION PROVIDED BY MEADOW RIDGE DEVELOPMENT, LLC.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP.



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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

DATE JULY 22, 20 14

OPERATORS WELL NO. MRD #1

API WELL NO. 47-103-03024

STATE WV COUNTY WV PERMIT 03024

*DmH 7-24-14*

P.S. 834

*Doyle Hupp, Jr.*

**HUPP Surveying & Mapping**  
P.O. Box 647 Grantsville, WV 26147  
(304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W1719 (BK72-7)

PROVEN SOURCE OF ELEVATION SG-GPS (OPUS) SCALE 1" = 1000'

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

WELL TYPE : OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION :  
ELEVATION 745' WATERSHED BUFFALO RUN  
DISTRICT GRANT COUNTY WETZEL QUADRANGLE PINE GROVE 7.5'

SURFACE OWNER WHEELING JESUIT UNIVERSITY ACREAGE 420.3±

ROYALTY OWNER WHEELING JESUIT UNIVERSITY, et al LEASE ACREAGE 330±

PROPOSED WORK :  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION GORDON  
ESTIMATED DEPTH 2700'

WELL OPERATOR MEADOW RIDGE DEVELOPMENT, LLC DESIGNATED AGENT GARTH PERKEY

ADDRESS 848 Husky Highway Suite #2 Fairmont, WV 26554 ADDRESS 848 Husky Highway Suite #2 Fairmont, WV 26554

COUNTY NAME PERMIT

08/15/2014