



west virginia department of environmental protection

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

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

October 03, 2014

WELL WORK PERMIT

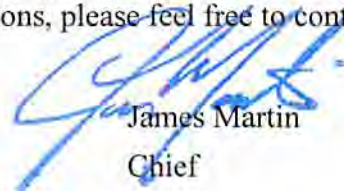
Re-Work

This permit, API Well Number: 47-4302056, issued to CHESAPEAKE APPALACHIA, L.L.C., 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: 4417
Farm Name: ADKINS, VIOLA
API Well Number: 47-4302056
Permit Type: Re-Work
Date Issued: 10/03/2014

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

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 within 30 days of commencement of drilling.

*OK H
518 7245
1650*

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

- 1) Well Operator CHESAPEAKE APPALACHIA, L.L.C. 494477557 Lincoln Union Hager, WV
Operator ID County District Quadrangle
- 2) Operators Well Number: 804417 WO 3) Elevation: 682'
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): Injun/Big Lime Proposed Target Depth: 1331'-1576'
- 6) Proposed Total Depth: 1675' Formation at proposed Total Depth: Lime Shells
- 7) Approximate fresh water strata depths: Behind Existing Casing
- 8) Approximate salt water depths: 675'
- 9) Approximate coal seam depths: 595'
- 10) Approximate void depths, (coal, Karst, other): None known
- 11) Does land contain coal seams tributary to active mine? No
- 12) Proposed Well Work: See Attached Well Workover Procedure
- 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	10"			19	19	Existing Casing
Fresh Water						
Coal						
Intermediate	6 5/8"			1335	1335	Existing Casing
Production	4 1/2"	M-65	9.5		1675	65
Tubing	2 3/8"	J	4.6	AS	NEEDED	
Lining						

PACKERS: Kind Hookwall
Sizes 4 1/2" x 6 1/4"
Depths set Approximately 1675'

*RDT
08/20/14*

804417 WORKOVER PROCEDURE

- 1) Safety first! Hold PJSA before all jobs
- 2) Prepare road and location, MIRU Service Rig
- 3) Pull 2 3/8" tubing and packer. NOTE: If packer will not pull, cut 2 3/8" at free-point (approximately 1650') and pull.
- 4) Check TD with 6" bit on tools
- 5) Run open hole logs and evaluate to be sure project is economic
- 6) Run 4 1/2" casing with appropriate float equipment to approximately 1650'
- 7) Cement 4 1/2" casing from shoe to approximately 1125', WOC
- 8) Run cement bond log, swab and perforate
- 9) MIRU pumping company and stimulate zone or zones as determined from OHL evaluation.
- 10) Flow back well starting with 3/8" choke and increasing size as needed
- 11) Finish clean up, check TD, record final open flow and rock pressure
- 12) Reclaim and turn in line

RDT
08/29/14

UNITED FUEL GAS COMPANY

Well 804417 W0
API: 47-043-02056

SERIAL WELL NO. 4417 LEASE NO. 34726 MAP SQUARE 36-17

<p>RECORD OF WELL No. 1 on the Viola Adkins Farm of 35 Acres in Laurel Hill District Lincoln County Field, State of West Va.</p>		<p>CASING AND TUBING</p> <table border="1"> <tr> <th>SIZE</th> <th>USED IN DRILLING</th> <th>LEFT IN WELL</th> </tr> <tr> <td>16</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>19</td> <td>19</td> </tr> <tr> <td>8 1/4</td> <td></td> <td></td> </tr> <tr> <td>6 5/8</td> <td>1335</td> <td>1335</td> </tr> <tr> <td>5 3/16</td> <td></td> <td></td> </tr> <tr> <td>4 7/8</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>2081</td> </tr> </table>		SIZE	USED IN DRILLING	LEFT IN WELL	16			13			10	19	19	8 1/4			6 5/8	1335	1335	5 3/16			4 7/8			4			3			2		2081	<p>TEST BEFORE SHOT</p> <p>3 of Water In. 2...Inch 10th. of Merc. In.Inch 10th. Volume 63,000 Cu. ft.</p> <p>TEST AFTER SHOT</p> <p>4 of Water In. 2...Inch 10th. of Merc. In.Inch 10th. Volume 94,560 Cu. ft.</p> <p>Back Pressure</p> <p>Date Shot ... May 27, 1925</p> <p>Size of Torpedo ... 80#</p> <p>Oil Flowed ... 64.1st 24 hrs. Oil Pumped 146.1st 24 hrs.</p> <p>Well abandoned and Plugged 193 .. Set at 1716'</p>
SIZE	USED IN DRILLING	LEFT IN WELL																																			
16																																					
13																																					
10	19	19																																			
8 1/4																																					
6 5/8	1335	1335																																			
5 3/16																																					
4 7/8																																					
4																																					
3																																					
2		2081																																			
<p>Rig Commenced 193 Rig Completed 193 Drilling Commenced March 5th, 1925 Drilling Completed April 9th, 1925 Drilling to cost per foot Contractor list Address: Owned by Superior Oil & Gas Co Sold to United Fuel Gas Company Driller's Name September 2nd, 1930</p>		<p>SHUT IN</p> <p>Date</p> <p>Tubing or Casing</p> <p>Size of Packer... 2-X-6-8/32</p> <p>Kind of Packer... ANCHOR</p> <p>1st Perf. Set from</p> <p>2nd Perf. Set from</p>																																			

EI. 687B

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Coal	595	600	5	<p>RDT 08/22/14</p> <p>Show of gas and oil at 1401' - 2 1/4" (6 1/4")</p> <p>Gas 2042-2056</p>
Salt Sand	680	1050	400	
Slate-Lime Shells	1050	1245	195	
Maxon Sand	1245	1295	50	
Little Lime	1295	1323	28	
Pencil Cave	1323	1327	4	
Big Lime	1331	1523	192	
Red Rock	1523	1555	32	
Big Injun Sand	1555	1575	20	
Lime Shells	1575	1750	175	
Borea Sand	2040	2057	17	
Slate (Total depth)	2079			

RECEIVED
NOV 10 1930
WORK IN PROGRESS
DEPARTMENT



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: David Sias ✓
Address: P.O. Box 484
Branchland, WV 25506

5) (a) Coal Operator:
Name: None
Address:

(b) Name: Gary D. Moore ✓
Address: 138 Bellomy Road
Branchland, WV 25506

b) Coal Owner(s) with Declaration:
Name: See Attached Sheet
Address:

(c) Name:
Address:

Name:
Address:

6) Inspector:
Name: Ralph Triplett
Address: 5539 McClellan Highway
Branchland, WV 25506
Telephone: 304-389-0350

(c) Coal Lessee with Declaration:
Name: None
Address:

TO THE PERSON(S) 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 of the West Virginia Code I have served copies of this notice and application a location plat, and accompanying documents pages 1 through on the above named parties, by:

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

I have read and understand Chapter 22-6 and 38 CSR 11-18, 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 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.

Well Operator: CHESAPEAKE APPALACHIA, L.L.C.
By: [Signature]
It's: Manager - Operations, Appalachia South
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

Subscribed and sworn before me this 27th day of August 2014
Phyllis A. Copley Notary Public,

My Commission expires September 16, 2018



Oil and Gas Privacy Notice

The office of Oil and Gas processes your personal information, such as name, address and phone 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 Free of Information Act requests. Our office will appropriately secure your personal information. If you have questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

10/03/2014

5) b) Coal Owner(s) with Declaration:

- 1) David Sias ✓
P.O. box 484
Branchland, WV 25506
- 2) H3 LLC ✓
1483 Johns Creek Road
Milton, WV 25541
- 3) Brian Keith Bellomy ✓
145 Bethesda Drive
Ona, WV 25545
- 4) Larry Adkins ✓
P.O. Box 421
West Hamlin, WV 25571
- 5) Mervin L. Henson, Jr. ✓
1418 Main Avenue
Nitro, WV 25143
- 6) Illene F. Henson ✓
10 Cardinal Lane
Hurricane, WV 25526

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Lincoln

Operator's Well Number: 804417 WO

Operator: Chesapeake Appalachia, L.L.C.

API Well Number: 47 - 043 - 02056

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by Code 22-6-16, 16, or 17, must be filed with the chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450 extension 1654

WAIVER

The undersigned coal operator _____ / owner / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

RECEIVED
Office of Oil and Gas

SEP 04 2014

FOR EXECUTION BY A NATURAL PERSON

Signature Date

FOR EXECUTION BY A CORPORATION, ETC.

Company Name: H3 WV Department of Environmental Protection

By BARBARA E. HOEFT

Its MANAGER

[Signature] 9-2-14
Signature Date

804417 WO

47-043-02056W

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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For delivery information visit our website at www.usps.com

HURRICANE WV 25522

OFFICIAL USE

Postage	\$ 11.61	0523
Certified Fee	23.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 17.61	08/28/2014

Sent To: **804417 WO (Coal)**
 Illene F. Henson
 10 Cardinal Lane
 Hurricane, WV 25526

PS Form 3800, August 2013

U.S. Postal Service™
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NITRO WV 25143

OFFICIAL USE

Postage	\$ 11.61	0523
Certified Fee	23.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 17.61	08/28/2014

Sent To: **804417 WO (Coal)**
 Mervin L. Henson, Jr.
 1418 Main Avenue
 Nitro, WV 25143

PS Form 3800, August 2013

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For delivery information visit our website at www.usps.com

WEST HAMLIN WV 25571

OFFICIAL USE

Postage	\$ 11.61	0523
Certified Fee	23.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 17.61	08/28/2014

Sent To: **804417 WO (Coal)**
 Larry Adkins
 P.O. Box 421
 West Hamlin, WV 25571

PS Form 3800, August 2013

U.S. Postal Service™
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For delivery information visit our website at www.usps.com

ONA WV 25545

OFFICIAL USE

Postage	\$ 11.61	0523
Certified Fee	23.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 17.61	08/28/2014

Sent To: **804417 WO (Coal)**
 Brian Keith Bellomy
 145 Bethesda Drive
 Ona, WV 25545

PS Form 3800, August 2013

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MILTON WV 25541

OFFICIAL USE

Postage	\$ 11.61	0523
Certified Fee	23.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 17.61	08/28/2014

Sent To: **804417 WO (Coal)**
 H3 LLC
 1483 Johns Creek Road
 Milton, WV 25541

PS Form 3800, August 2013

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 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

BRANCHLAND WV 25506

OFFICIAL USE

Postage	\$ 11.61	0523
Certified Fee	23.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 17.61	08/28/2014

Sent To: **804417 WO (Surface)**
 Gary D. Moore
 138 Bellomy Road
 Branchland, WV 25506

PS Form 3800, August 2013

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

BRANCHLAND WV 25506

OFFICIAL USE

Postage	\$ 11.61	0523
Certified Fee	23.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 17.61	08/28/2014

Sent To: **804417 WO (Surface and Coal)**
 David Sias
 P.O. Box 484
 Branchland, WV 25506

PS Form 3800, August 2013

10/03/2014

Operators Well Number: 804417 WO

API Well Number: 47- 043 - 02056

**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 leases(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:

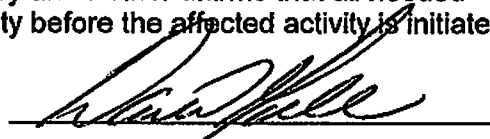
<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book/Page</u>
Viola Adkins	Chesapeake Appalachia, L.L.C.	1/8	10 / 352

**Acknowledge 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 Services
- *County Floodplain coordinator

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



Well Operator:

Chesapeake Appalachia, L.L.C.

By:

David Gocke

Its:

Manager – Operations, Appalachia South

10/03/2014

API Number 47 - 043 - 02056

Operator's Well No. 804417 WO

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

Operator Name CHESAPEAKE APPALACHIA, L.L.C. OP Code 494477557

Water (HUC 10) Mud River Quadrangle Hager, WV 7.5'

Elevation: 682' County Lincoln District Union

Description of anticipated using more than 5,000 bbls of water to complete the proposed well work: Yes No

Will a pit be used for drill cuttings? Yes No (Not drilling)

If so, please described anticipated pit waste: Cement and Frac Water

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 6-20 ml.

Proposed Disposal Method for treated Pit Wastes:

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

Will closed loop system be used? No (Not drilling)

Drilling medium anticipated for this well? Air, fresh water, oil based, etc. None

If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? None

Drilling cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

If left in pit and plan to solidify what medium will be used? (Cement, lime, sawdust) _____

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 Division 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 *David Gocke*

Company Official (Typed Name) David Gocke
Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 27th day of Aug 2014

Phyllis A. Copley



Notary Public

My Commission expires September 16, 2018

10/03/2014

Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.1

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 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.

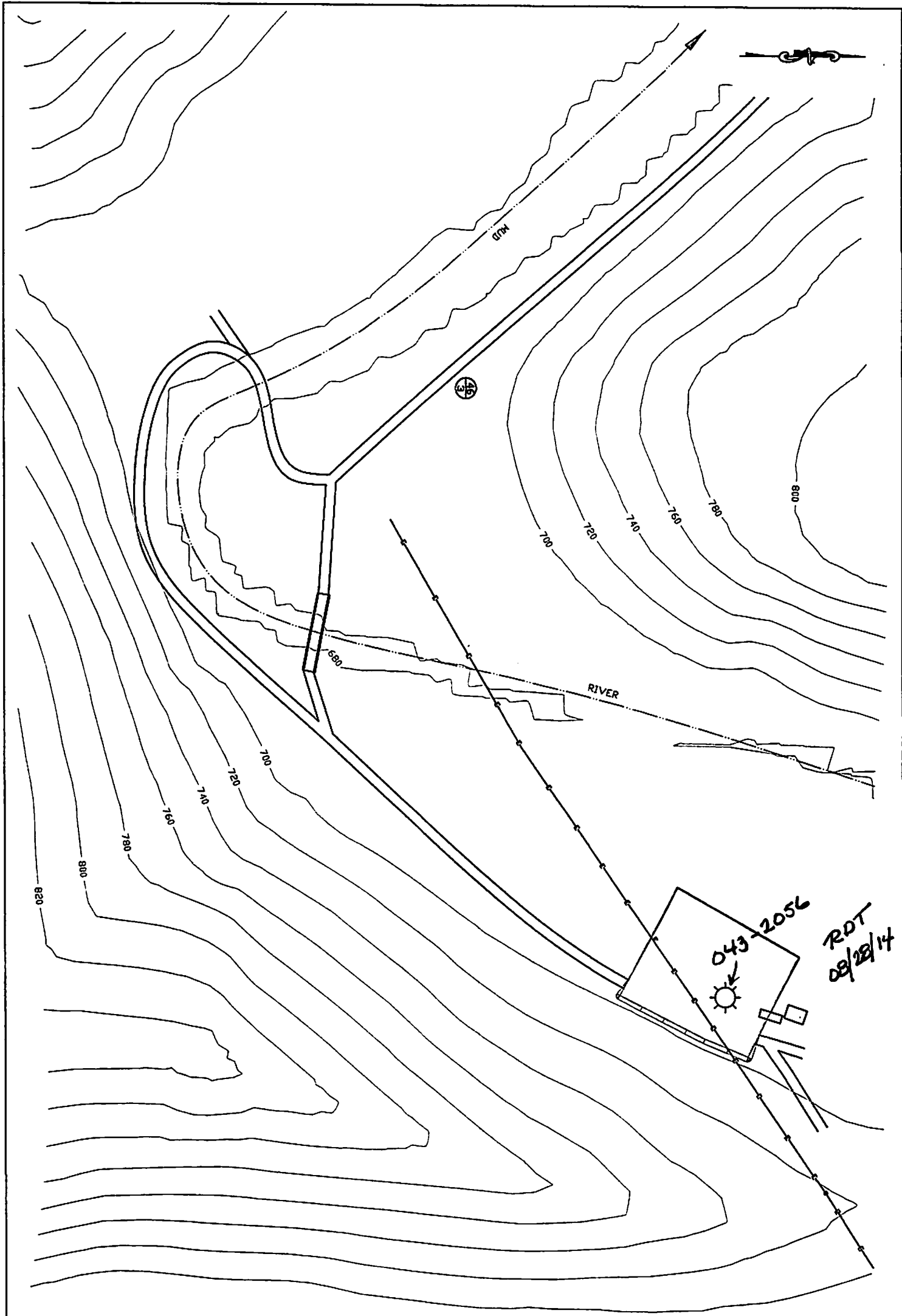
Photocopied section of involved 7.5' topographic sheet.

Plan Approved: Raepl D. Triplett



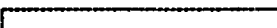


Comments:

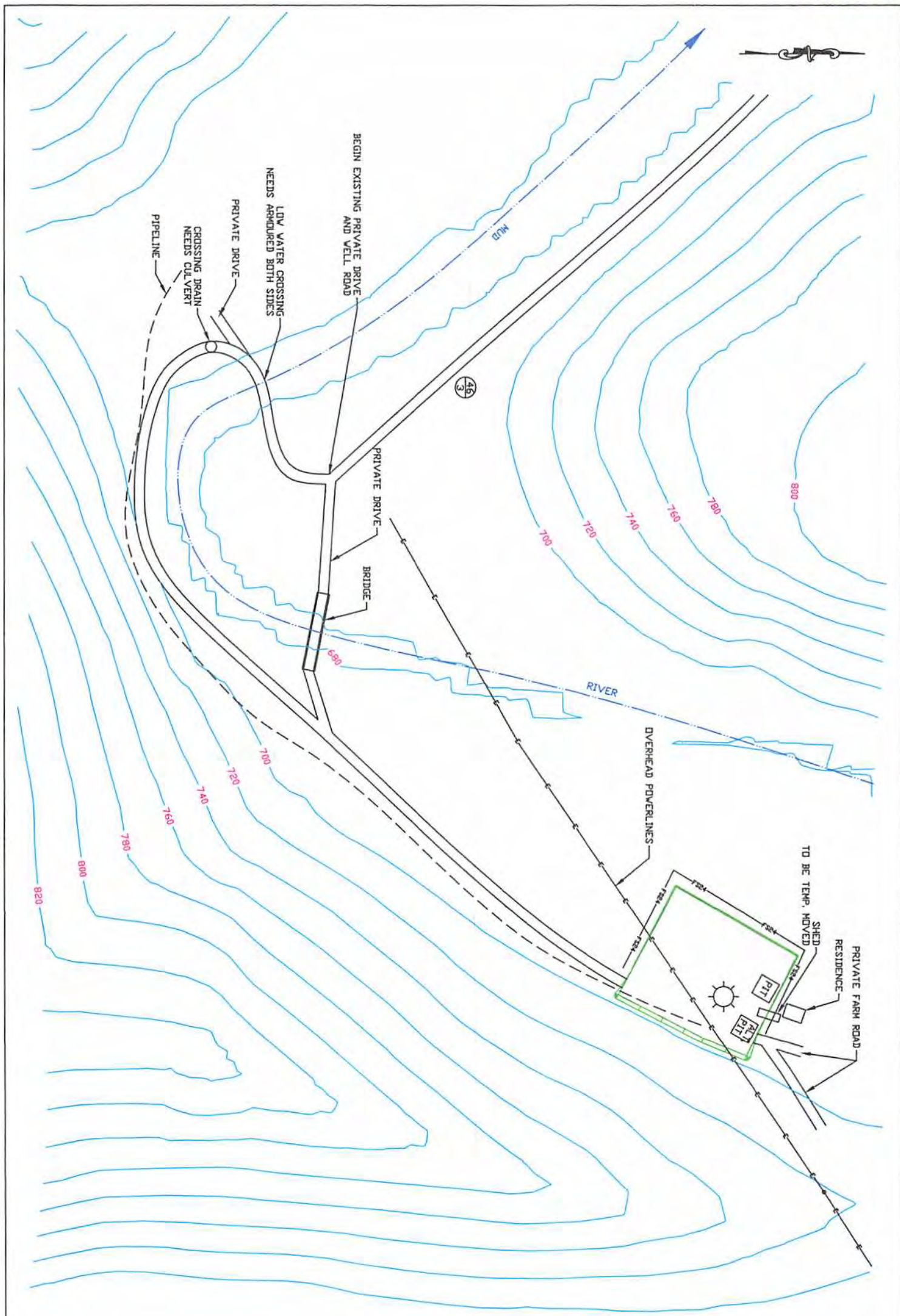
Title: District Inspector Date: August 28, 2014

Field Reviewed? Yes No



10/03/2014

DISTURBED AREAS		LEGEND		SITE PLAN	
WELL PAD CONSTRUCTION	0.38 AC.		STREAM	CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKOVER OF WELL # 804417	
EXISTING ACCESS ROAD	0.25AC.		PROPERTY LINE	UNION DISTRICT, LINCOLN COUNTY HAGER GUAD, WV 7.3'	
ADDITIONAL CLEARING			SLOPE AREA	JUNE 11, 2014	
			WETLAND	TRUE LINE SURVEYING 621 FAIRVIEW DR. HUNTINGTON, WV 25705	
TOTAL DISTURBED AREA	0.63 AC		BUFFER AREA	PAGE 1 OF 1	



10/03/2014

LEGEND

- PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXIBLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES
- LEVEL SPREADER
- DIVERSION DITCH
- BERM OUTLET

- STREAM
- PROPERTY LINE
- SLOPE AREA
- WETLAND
- 24' COMPOST FILTER SOCK AS REQUIRED

EROSION AND SEDIMENT CONTROL PLAN

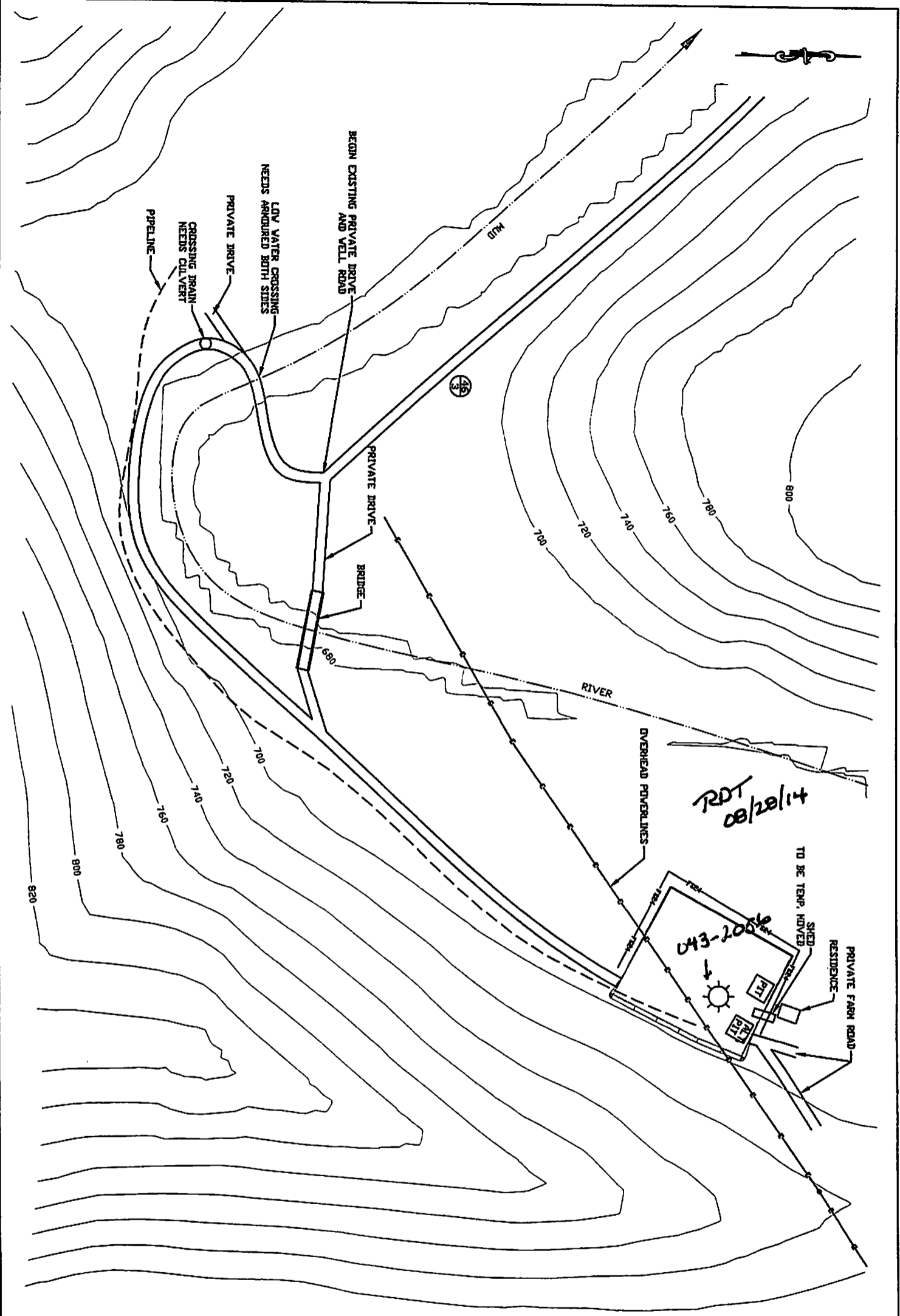
HARD ROCK EXPLORATION
 PROPOSED WELL # HR-483AA
 REEDY DISTRICT, ROANE COUNTY
 PENIEL QUAD, WV 7.5'

OCTOBER 21, 2013

TRUE LINE SURVEYING
 6211 FAIRVIEW DR.
 HUNTINGTON, WV 25705

PAGE 1 OF 1

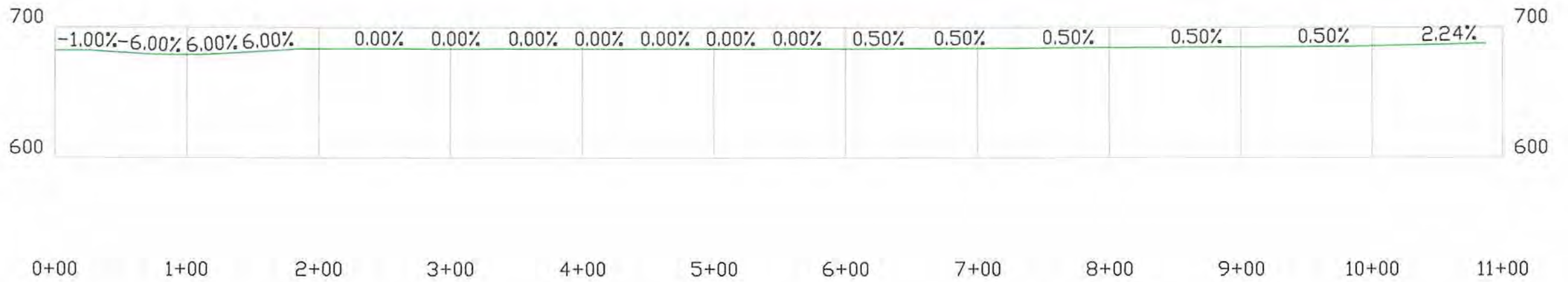





10/03/2014

LEGEND		EROSION AND SEDIMENT CONTROL PLAN	
PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXABLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES	STREAM	HARD ROCK EXPLORATION PROPOSED WELL # HR-483AA REEDY DISTRICT, ROANE COUNTY PENIEL QUAD, WV 7.5"	
LEVEL SPREADER	PROPERTY LINE	OCTOBER 21, 2013	
DIVERSION DITCH	SLOPE AREA	TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705	
BERM OUTLET	WETLAND		
	24" COMPOST FILTER SOCK AS REQUIRED	PAGE 1 OF 1	

4302656W



ROAD PROFILE	
CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKOVER OF WELL # 804417	
UNION DISTRICT, LINCOLN COUNTY HAGER QUAD, WV 7.5'	
JUNE 11, 2014	
TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705	
PAGE <u>1</u> OF <u>1</u>	

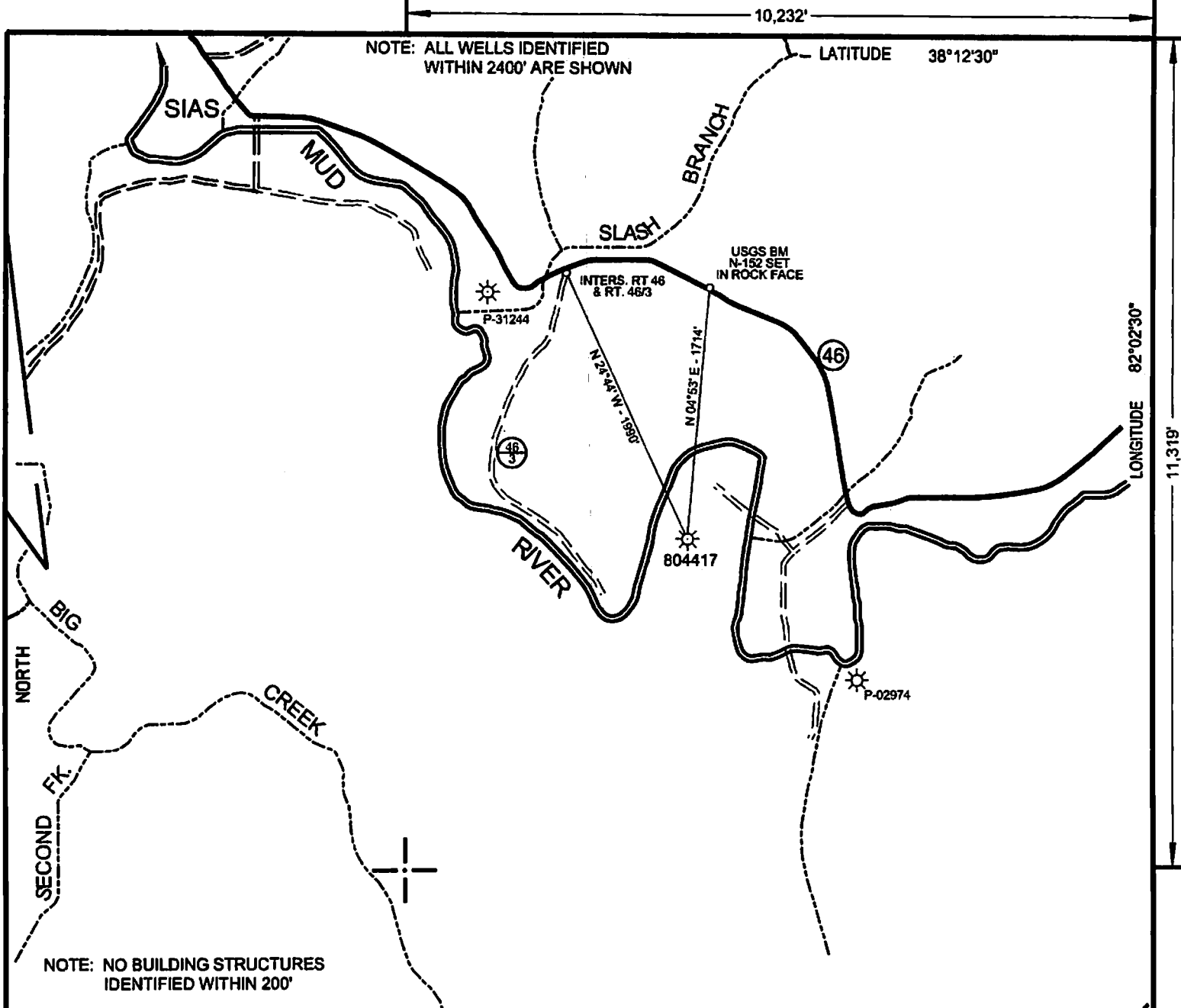


DELORME
 © 2001 DeLorme, XMap®. Data copyright of content owner.
 Zoom Level: 14-0 Datum: WGS84

Scale 1" = 2.4 000'
 1" = 2 000.00'

0 800 1600 2400 3200 4000 ft
 0 200 400 600 800 1000 1200 m

TN
 MN
 6.5°W



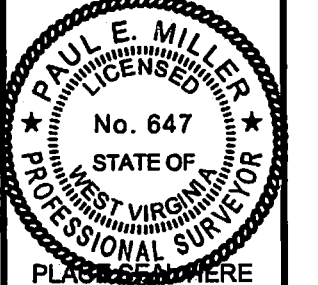
SURFACE HOLE
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 430,464.15 : E - 1,690,348.79
LATITUDE: (N) 38.1772419 LONGITUDE: (W) 82.0772421
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,226,039.220 : E - 405,660.425


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

FILE NO.	804417WO.DGN
DRAWING NO.	4417 WO
SCALE	1" = 1000'
MINIMUM DEGREE OF ACCURACY	1:200
PROVEN SOURCE OF ELEVATION	MAPPING GRADE GPS

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) *Paul E. Miller*
R.P.E. _____ L.L.S. 647



STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION		DATE	MAY 14	, 20	14
		OPERATOR'S WELL NO.	804417		
WELL TYPE: OIL ___ GAS <u>X</u> LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS,") PRODUCTION <u>X</u> STORAGE ___ DEEP ___ SHALLOW <u>X</u>		STATE	47	COUNTY	043
LOCATION: ELEVATION 882' WATER SHED MUD RIVER DISTRICT UNION COUNTY LINCOLN QUADRANGLE HAGER, WV 7.5'		PERMIT	02056 W		
SURFACE OWNER DAVID SIAS ACREAGE 24 OIL & GAS ROYALTY OWNER VIOLA ADKINS HRS. LEASE ACREAGE _____ LEASE NO. 1-034726-000		DATE 10/03/2014			
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ WORKOVER _____		COUNTY NAME _____ PERMIT _____			
TARGET FORMATION _____ ESTIMATED DEPTH _____ WELL OPERATOR CHESAPEAKE APPALACHIA L.L.C. DESIGNATED AGENT ERIC B. GILLISPIE ADDRESS PO BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS CHESAPEAKE APPALACHIA LLC PO BOX 6070 CHARLESTON, WV 25362		PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___			

FORM WW-6

WW2-B1
(5-12)

Operator's Well Number: 804417 WO
API Well Number: 47 - 043 - 02056 W

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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

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

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

Certified Laboratory Name No water sampling
Sampling Contractor _____

Well Operator CHESAPEAKE APPALACHIA, L.L.C.
Address P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone 405-935-4073

FOR OPERATORS 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 underlining which one you have selected to sample and analyze. If there are not 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 proposed site.

10/03/2014