

# 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 05, 2014

# WELL WORK PERMIT Re-Work

This permit, API Well Number: 47-4300576, 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: 5553

Farm Name: HUNT DEV & GAS FEE

API Well Number: 47-4300576 Permit Type: Re-Work

Date Issued: 08/05/2014

# **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. <u>Failure to adhere to the specified permit conditions may result in enforcement action</u>.

### **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 within 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. This permit is being conditioned to address the possibility of flooding in the area of this well. Any tanks stored on this location must be securely anchored in cement to prevent the loss of tanks should a flood occur. In addition, cages must be placed around the well head to prevent debris from damaging the well head.

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

	WELL WORKT ENWIT ATT EIGHTON
1)	Well Operator CHESAPEAKE APPALACHIA, L.L.C. 494477557 Lincoln Laurel Hill Branchland, WV
	Operator ID County District Quadrangle
2)	Operators Well Number: 805553 WO 3) Elevation: 1070'
4)	Well type: (a) Oil or Gas_X
	(b) If Gas: Production X Underground Storage Deep Shallow X_
5)	Proposed Target Formation(s): Injun/Big Lime Proposed Target Depth: 1484'-1710'
6)	Proposed Total Depth: 1825' Formation at proposed Total Depth: Slate and Shells
7)	Approximate fresh water strata depths: 100'
8)	Approximate salt water depths: Behind Existing Casing
9)	Approximate coal seam denths: Rehind Existing Casing

10) Approximate void depths, (coal, Karst, other): None Known 11) Does land contain coal seams tributary to active mine?

Proposed Well Work: See Attached Well Workover Procedure 12)

CASING AND TUBING PROGRAM 13)

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT	
	SIZE	GRADE	WEIGHT PER FT.	FOR DRILLING	LEFT IN WELL	FILL-UP (CU.FT.)	
Conductor	10"			16	16	Existing Casing	
Fresh Water							
Coal	8 1/4"			293	293	Existing Casing	
Intermediate	6 5/8"			1505	1505	Existing Casing	
Production	4 1/2"	M-65	9.5		1825	65	
Tubing	2 3/8"	J	4.6	As	Needed		
Liners							

PACKERS: Kind Hookwall Sizes 4 1/2" x 6 1/4"

Depths set Approximately 1825'

RAT 07/07/14

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WV Department of Environmental Protection

# 805553 Workover Procedure

- 1) Safety first! Hold PJSA before all jobs.
- 2) Use slick line to check TD and verify tools will go to at least 1750'.
- 3) Run open hole logs and evaluate to be sure project is economic. (Repair road if needed to MIRU OHL).
- 4) MIRU Service Rig. Run tools to check TD
- 5) Run 4 1/2" casing with appropriate float equipment to depth determined from OHL.
- 6) Cement 4 1/2" casing from shoe to approximately 1300', WOC
- 7) Run cement bond log, swab and perforate
- MIRU pumping company and stimulate zone or zones determined from OHL evaluation.
- 9) Flow back well starting with 3/8" choke and increasing size as needed
- 10) Finish clean up, check TD, record final open flow and rock pressure
- 11) Reclaim and turn in line

RPT 07/07/14

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Office of Oil and Gas

JUL 08/08/2014

WV Department of Environmental Protection



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# DEPARTMENT OF MINES OIL AND GAS DIVISION

Well 805553 WO API 47-043-00576

<del>08/</del>08/2014

## WELL RECORD

Oil or Gas Well GAS

Permit No. LIN-576 Company United Fuel Gas Company Used in Drilling Left in Well Packers Address Box 1273, Charleston 25, W. Va. Farm Huntington Dev. & Gas Co. Fee Acres 17,695.86 Size Location (waters) Six Wile Creek Kind of Packer. Well No. 5553 District Laurel Hill County Lincoln 164 161 Size of The surface of tract is owned in fee by\_ 293 293 1505 1505 Mineral rights are owned by Huntington Dev. & Gas Co. Depth set\_ 654 Address Charleston, W. Va. 5 3/16. Drilling commenced 2-21-45 Perf. top. Drilling completed 8-16-45 Perf. bottom Date Shot 8-20-45 \_From 3148 To 3445 Liners Used Perf. top\_ 3100# Gel. Perf bottom /10ths Water in\_ Open Flow CASING CEMENTED\_ SIZE No. Ft Date /10ths Merc. in\_ Inch Gas Well Cu. Ft. Volume hes Rock Pressure. COAL WAS ENCOUNTERED AT\_\_\_ INCHES FEET bbls., 1st 24 hrs. FEET. INCHES FEET INCHES Fresh water. FEET INCHES FEET INCHES Selt water feet Oil. Gas or Water Depth Found Hard or Formation Color Top Bottom Remarks 0 Surface 15 100 Slate 100 115 Sand 115 130 Slate 130 180 Sand 180 200 Slate 230 200 Sand 230 340 Slate 422 Sand 340 122 473 Slate 473 Sand 610 610 645 Slate 645 695 Shells 695 705 Sand Slate & Shells 774 705 774 1015 Sand 1020 1015 Slate 1020 1215 Sand Slate & Shells 1215 1270 1270 1325 Sand Slate & hells 1325 1461 1484 Little Lime 1461 1595 1660 1484 Gas Big Lime Office of Oil and Gas 1710 Injun Sand 1660 1710 2221 Slate & Shells 2221 2236 Brown Shale 2236 2249 Berea Grit 2249 2460 Slate & Shells 2460 2530 Blue Slate 2530 2710 Brown Shale 2710 3175 Slate 3175 3433 Brown Shale rownental Protection epartment of 3445 White Slate 3433 3445 Total Depth

WW2-A (Rev. 6-07) 1) Date: June 20, 2014

Operator's Well Number 805553 WO

State County Permit

3) API Well Number 47 -043 -00576

CK# 5/65458 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION FOR A WELL WORK PERMIT

5)

4) Surface owner(s) to be served:

Name: Heartwood Forestland Group Address: C/O Craig Kaderavak

19045 Stone Mountain Road Abingdon, VA 24210

(a) Coal Operator: Name: None

Address:

(b) Name: Lois Adkins

Address 193 Nine Mile Creek Midkiff, WV 25540

b) Coal Owner(s) with Declaration:

Pocahontas Land Corporation Name: Address: 800 Princeton Avenue Bluefield, WV 24701

See Attached Page Name: (c)

Address:

Name: Address:

6) Inspector:

Name: Ralph Triplett

Address: 5539 McClellan Highway

Branchland, WV 25506

Telephone: 304-389-0350

Coal Lessee with Declaration: (c)

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 though 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 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.

CHESAPEAKE APPALACHIA, L.L.C. Well Operator: Much Ву:

It's

Manager - Operations, Appalachia South P.O. Box 18496

Address:

Oklahoma City, OK 73154-0496

Telephone:

405-935-4073

Subscribed and sworn before me this day of June 2014

Notary Public,

My Commission expires September 16, 2018

Oil and Gas Privacy Notice

The office of Oll 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.

Operator's Well Number: 805553 WO

API Well Number: 47 - 043 - 00576 W

# 4) Surface Owner(s) to be served - CONTINUED:

- (c) Bryan and Lisa Stevens P.O. Box 473 Hamlin, WV 25523
- (d) Jerry Chapman P.O. box 142 Midkiff, WV 25540

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Office of Oil and Gas
JUL 0 8 2014
WV Department of
Environmental Protection
08/08/2014

WW2-A Surface Waiver

7/8

#### SURFACE OWNER WAIVER

County Lincoln

Operator: Chesapeake Appalachia, L.L.C.

Operator Well Number: 805553 WO API Well Number: 47 – 043 - 00576

## **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 tru 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 COMMENDS 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

<u>Time Limits and methods for filing comments.</u> The law required 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.

<u>Comments must be in writing.</u> 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 previosu 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.

<u>List of Water Testing Laboratories</u>. 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 A Notice and Application for a Well Work permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_\_\_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.

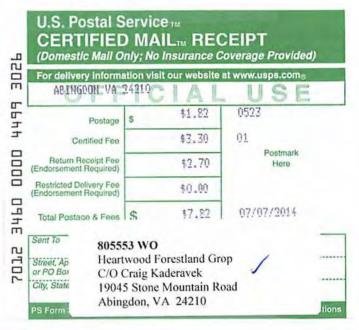
FOR EXECUTION BY A NA	ATURAL PERSON	FOR EXECUTION BHE AFT GOOD FOR FIND FUND L.P.			
Signature	Date Office	RE <b>(Company Name:</b> of <b>By</b> and Gas	its General p	Forestland Advisors (LLC, artner and Group, LLC, its Manager	
		UL Its9 1014			
	WV	Department <u>of</u>	Charlews	Neg word Direct 2014	
		mental Protecti <b>o</b>		Date 7-14-14	

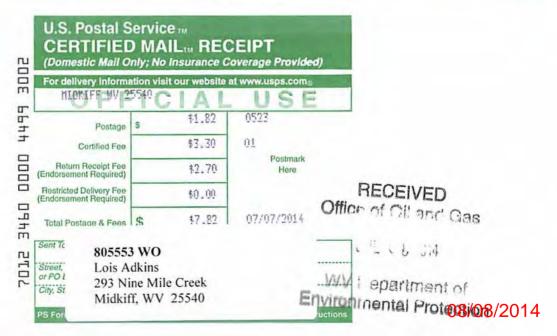
# WEIL 805553 WO API 47-043-00576W











SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY			
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature  X. Dus C. Date of Deliver C. Date of			
805553 WO Lois Adkins 293 Nine Mile Creek Midkiff, WV 25540	3. Service Type  ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise			
	☐ Insured Mail ☐ C.O.D.  4. Restricted Delivery? (Extra Fee) ☐ Yes			
	In modera fried			

Operators Well Number: 805553 WO API Well Number: 47-043-00576

# 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--

- 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:

Grantee, lessee, etc. Grantor, lessor, etc. Royalty Book/Page 1/8 Hirtington Gas Development Chesapeake Appalachia, LLC 234 / 318

## 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,

By:

Its:

David Gocke

Wy Papalachia Souu

Manager – Parations Papalachia Souu

Ment of 108/08/2014

Protection

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

Water (HUC 10) Sixmile Creek of Guyan River  Elevation 1070' County Lincoln District Laurel Hill  Description of anticipated 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 No (Not drilling)  If so, please described anticipated pit waste: Cement and frac water Will a synthetic liner be used in the pit? Yes X No If so, what ml.? Yes Vollet Independent injection (UIC Permit Reuse (at API Number X Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain)  Will closed loop system by used? No (Not Drilling)  Drilling medium anticipated for this well? Air, fresh water, oil based, etc.  If oil based, what type? Synthetic, petroleium, etc.  Additives to be used in drilling medium?  Drilling cuttings disposal method? Leave in pit, landfill, removed offsite, etc.  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 and 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 faw 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 imprising 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 t	Operator Name CHESAPEAKE APPALACHIA, L.L.C. OP Code 494477557
Description of anticipated using more than 5,000 bils of water to complete the proposed well work: 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.? Zo Mill [If so, what ml.? ]  Proposed Disposal Method for treated Pit Wastes:  Land Application Underground injection (UIC Permit Reuse (at API Number X Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain)  Will closed loop system by used? No (Not Drilling)  Drilling medium anticipated for this well? Air, fresh water, oil based, etc If oil based, what type? Synthetic, petroleium, etc.  Additives to be used in drilling medium?  Drilling cuttings disposal method? Leave in pit, landfill, removed offsite, etc  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 I, 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 Title	Water (HUC 10) Sixmile Creek of Guyan River Quadrangle Branchland, WV 7.5'
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? YesX No If so, what ml.?	Elevation 1070' County Lincoln District Laurel Hill
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Will a synthetic liner be used in the pit? Yes X No If so, what ml.? X  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 by used? No (Not Drilling)  Drilling medium anticipated for this well? Air, fresh water, oil based, etc.  If oil based, what type? Synthetic, petroleium, etc.  Additives to be used in drilling medium?  Drilling cuttings disposal method? Leave in pit, landfill, removed offsite, etc.  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.  Leartify 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 (Typed Name)  David Gocke  Company Official (Typed Name)  David Gocke  Ompany Official Title  Manager – Operations, Appalachia South	Will a pit be used for drill cuttings? Yes No (Not drilling)
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 by used? No (Not Drilling)  Drilling medium anticipated for this well? Air, fresh water, oil based, etc.  If oil based, what type? Synthetic, petroleium, etc.  Additives to be used in drilling medium?  Drilling cuttings disposal method? Leave in pit, landfill, removed offsite, etc.  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 (Typed Name)  David Gocke  Manager – Operations, Appalachia South  Subscribed and sworn before me this  June 1 David Gocke  Manager – Operations, Appalachia South	If so, please described anticipated pit waste: Cement and frac water  Will a synthetic liner be used in the pit? Yes X No If so, what ml.? X
Drilling medium anticipated for this well? Air, fresh water, oil based, etc	Land Application Underground Injection (UIC Permit Reuse (at API Number  Off Site Disposal (Supply form WW-9 for disposal location)
Additives to be used in drilling medium?	Will closed loop system by used? No (Not Drilling)
Drilling cuttings disposal method? Leave in pit, landfill, removed offsite, etc	Drilling medium anticipated for this well? Air, fresh water, oil based, etc
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If left in pit and plan to solidify what medium will be used? (Cement, lime, sawdust)	Additives to be used in drilling medium?
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  Company Official Title  David Gocke  Company Official Title  David Gocke  Manager – Operations, Appalachia South  Subscribed and sworn before me this  day of July 2014	Drilling cuttings disposal method? Leave in pit, landfill, removed offsite, etc.
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  Company Official Title  David Gocke  Company Official Title  David Gocke  Manager – Operations, Appalachia South  Subscribed and sworn before me this  Aday of August 2014	If left in pit and plan to solidify what medium will be used? (Cement, lime, sawdust)
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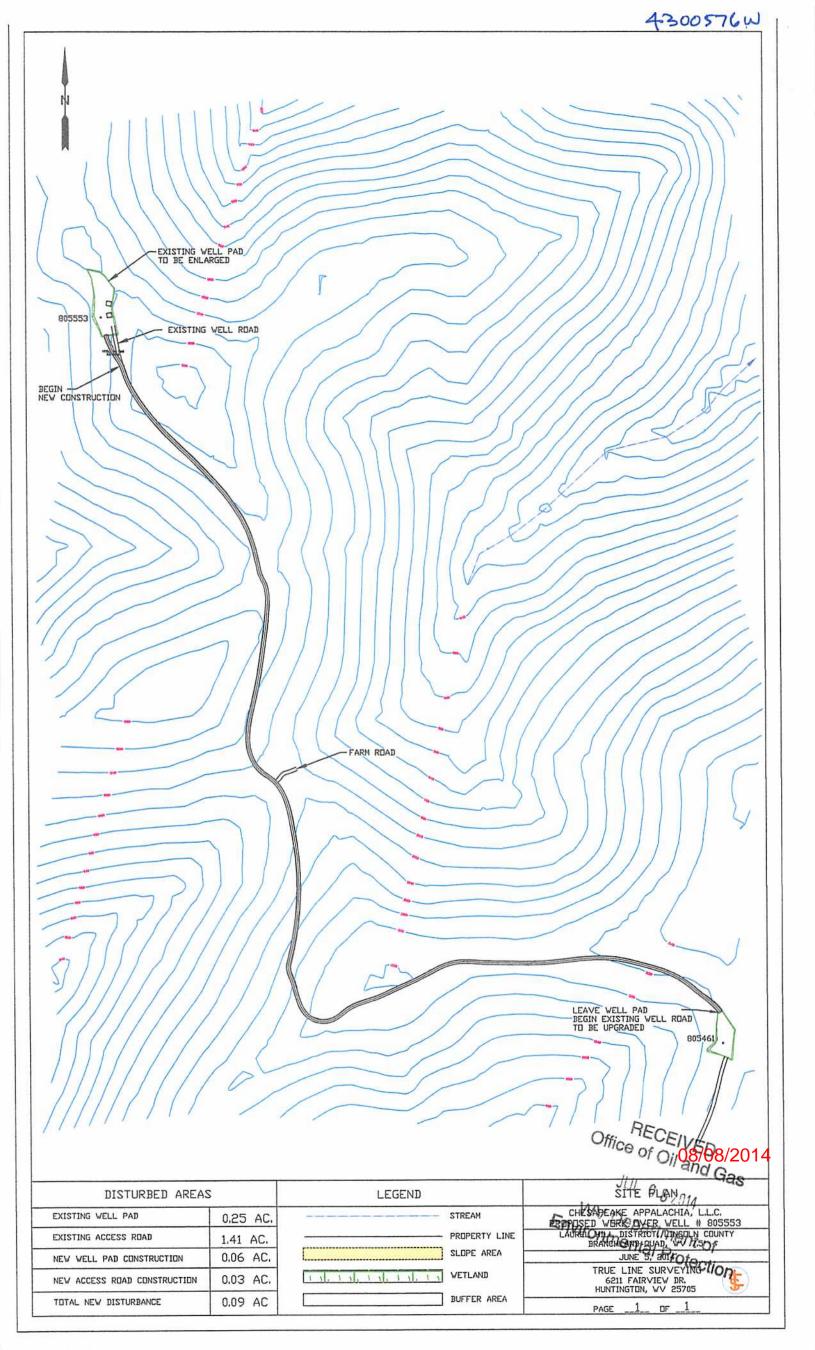
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Office of Oil and Gas
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WV Department of
Environmental Protection

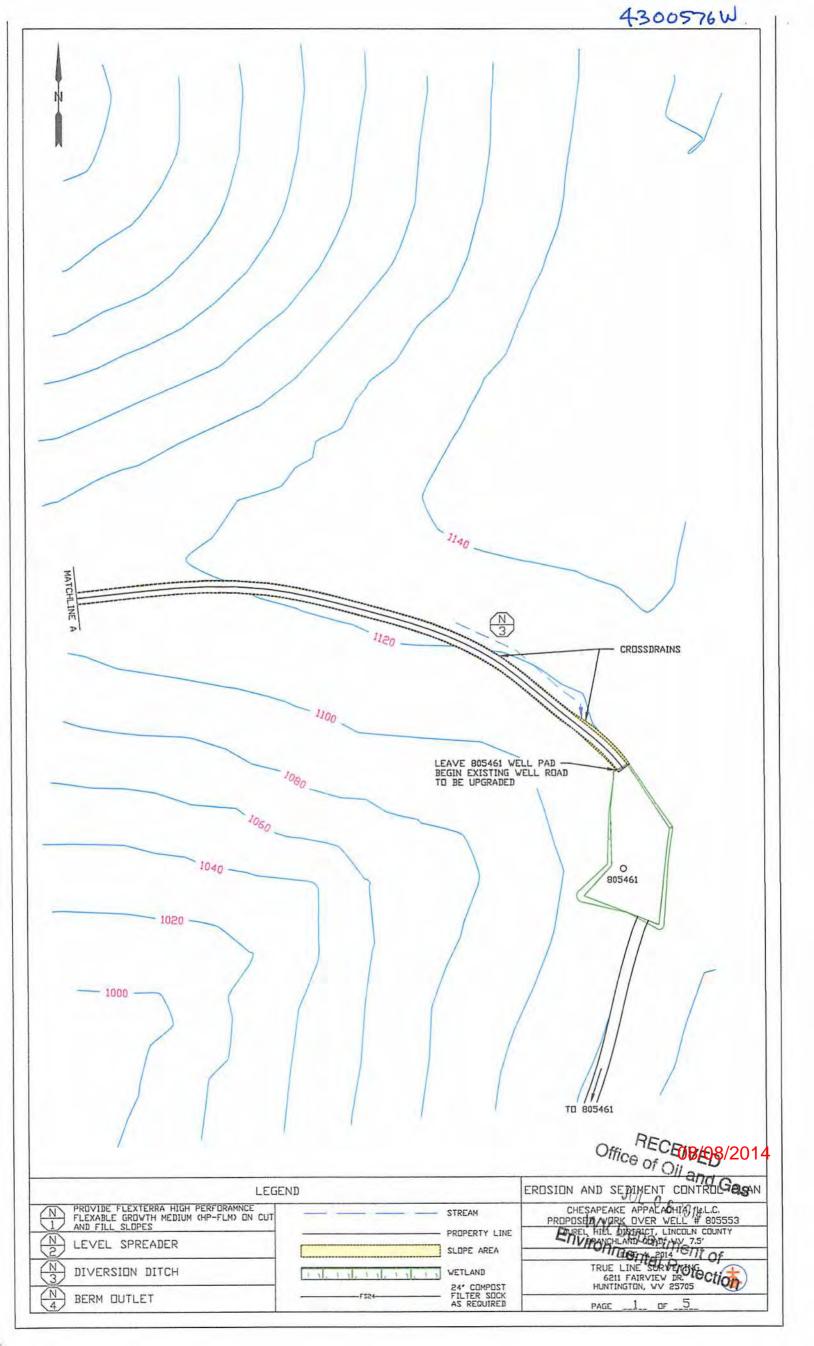
Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.1  Lime 3 Tons/acre or to correct to pH 6.5  Fertilizer (10-20-20 or equivalent) 500 Ibs/acre (500 lbs minimum)  Mulch Hay 2 Tons/acre  Seed Mixtures  Area I Seed Type Ibs/acre Seed Type Ibs/acre  KY 31 40 Orchard Grass 15  Alsike 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 : Palph 2 7/2 plat 2	Form WW-9	Operator's Well Number: API Well Number:			805553 WO 47 - 043 - 00576 W	
Fertilizer (10-20-20 or equivalent)	Proposed Revegetation Treatmer	bed 1.0 Pre	vegetation pH _	6.1	_	
Mulch Hay 2 Tons/acre  Seed Mixtures  Area I Seed Type Ibs/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.	Lime3	Tons/acre or to correct	ct to pH6.5			
Seed Mixtures  Area II Seed Type Ibs/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.	Fertilizer (10-20-20 or ed	quivalent) 500 lbs/a	acre (500 lbs minin	num)		
Area I Seed Type Ibs/acre  KY 31 40 Orchard Grass 15  Alsike Clover 5 Annual Rye 15  Alsive Clover 5 Annual Rye 15  Alsive Clover 5 Annual Rye 15  Alsive Clover 5 Annual Rye 15	Mulch Hay 2	_ Tons/acre				
Seed Type Ibs/acre  KY 31 40 Orchard Grass 15  Alsike Clover 5 Alsike Clover 5  Annual Rye 15  Annual Rye 15  Annual Rye 15  Annual Rye 15  Alsike Clover 5  Annual Rye 15		15	Seed Mixtures			
Alsike Clover 5 Annual Rye 15  Attach: Prawing(s) of road, location, pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.		lbs/acre		Seed Type	Area II	lbs/acre
Annual Rye  Annual Rye  Attach:  Drawing(s) of road, location, pit and proposed area for land application.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved:  Plan Approved:  Plan Approved:  Plan Approved:	KY 31	40	_	Orchard Gra	SS	15
Attach: Orawing(s) of road, location, pit and proposed area for land application. Ohotocopied section of involved 7.5' topographic sheet. Olan Approved August 2.7 republic	Alsike Clover	5	-	Alsike Clove	r	5
Plan Approved : Paspl D. TrypedD	Annual Rye	15				
	Drawing(s) of road, location, pit a		nd application.			
Somments.		3. /1-/2000				
	Johnnestts.					

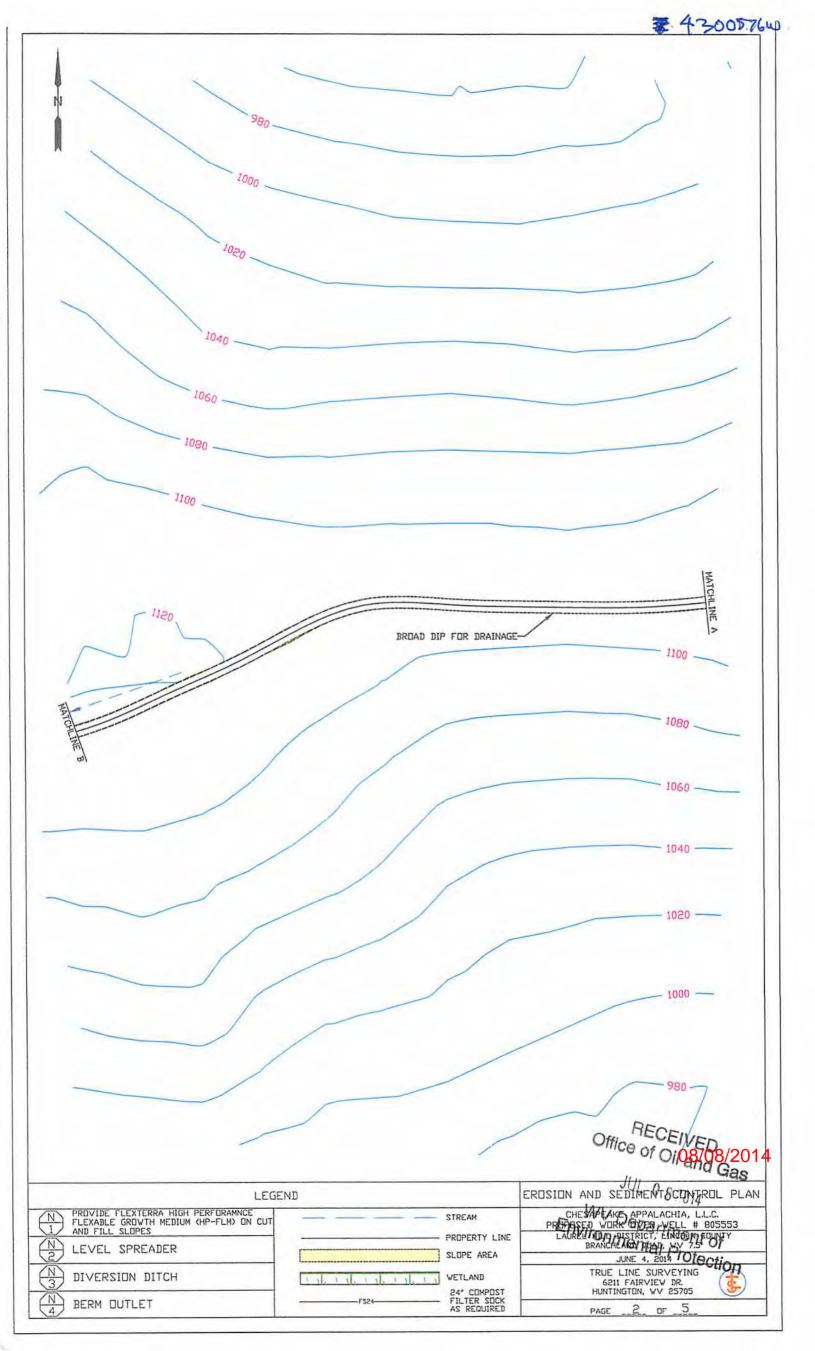
Title: District Inspector

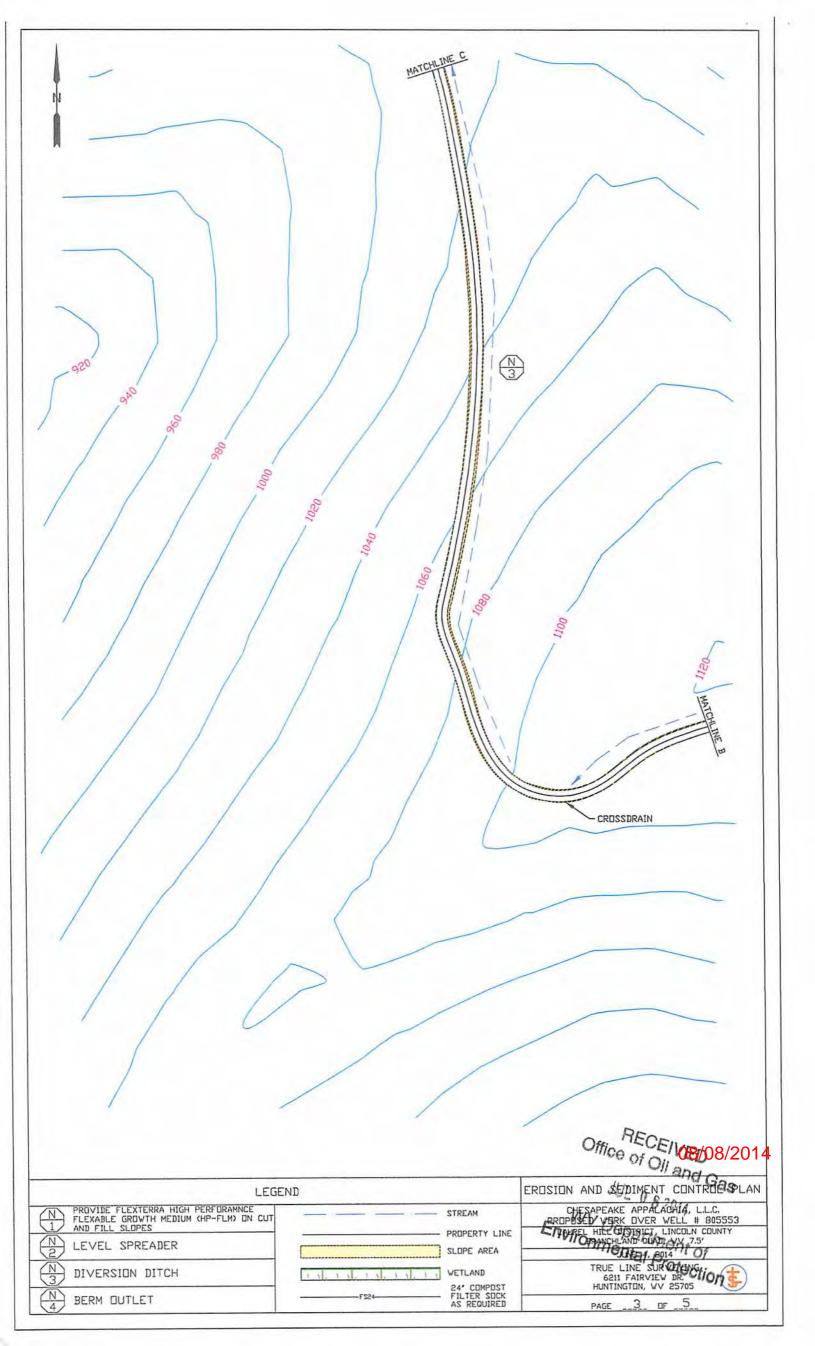
Field Reviewed?

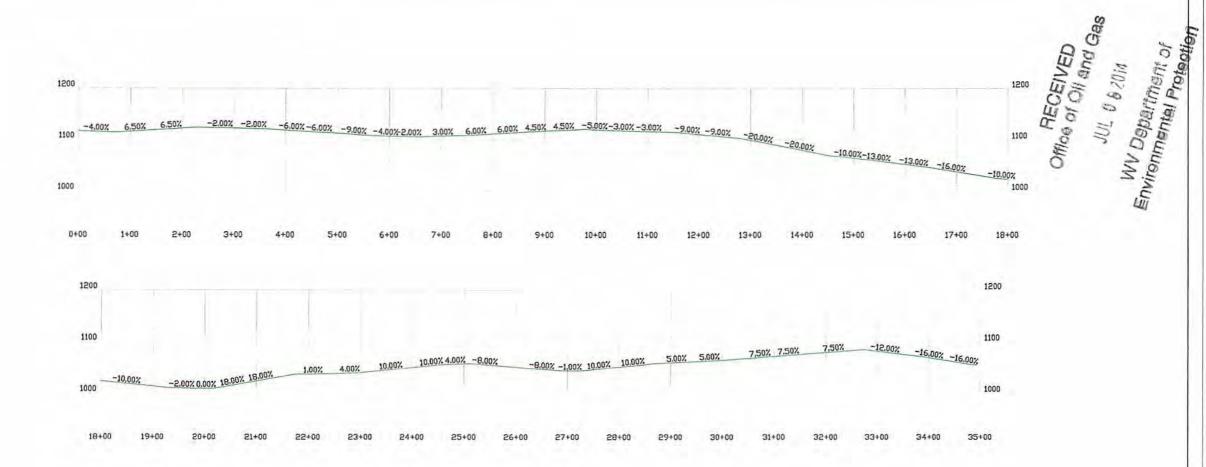
Office of Office











#### ROAD PROFILE

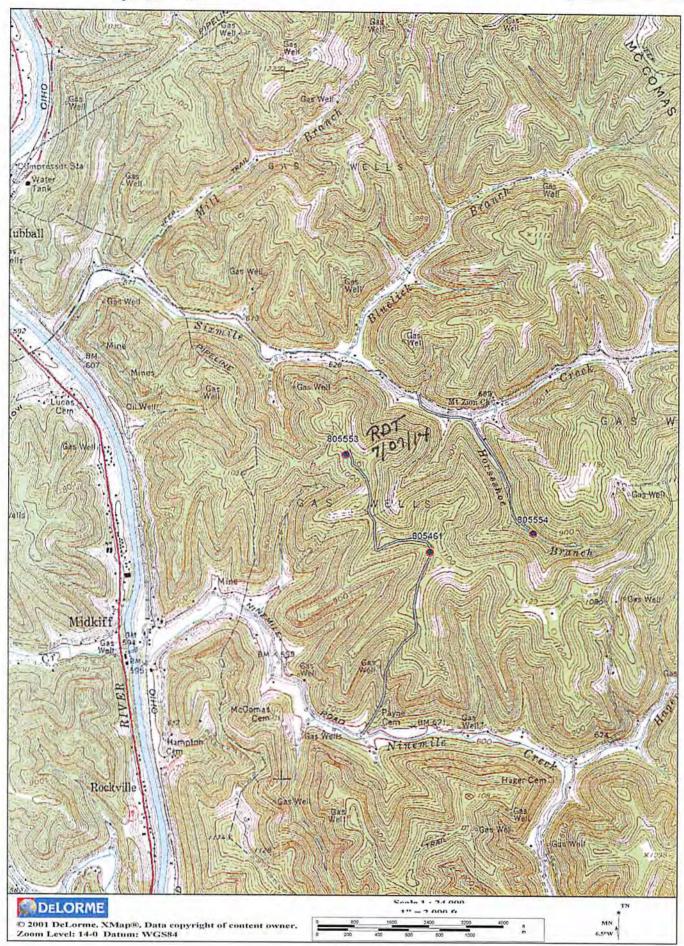
CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKDVER WELL # 805553 LAUREL HIL DISTRICT, LINCOLN COUNTY BRANCHLAND GUAD, WV 7.5'

JUNE 4, 2014

TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, VV 25705



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