



**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](http://www.dep.wv.gov)

August 14, 2014

**WELL WORK PERMIT**

**Re-Work**

This permit, API Well Number: 47-4300171, 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: 804626  
Farm Name: STOWERS, BUSTER & OLLIE  
**API Well Number: 47-4300171**  
**Permit Type: Re-Work**  
Date Issued: 08/14/2014

# 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 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. Treated pit fluids shall not be applied to the adjacent surface property of Stacey and Lori Bokey per the modified reclamation plan.

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 Duval Griffithsville, WV 7.5'  
Operator ID County District Quadrangle
- 2) Operators Well Number: 804626 WO 3) Elevation: 1087'
- 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: 1715' - 1945'
- 6) Proposed Total Depth: 2050' Formation at proposed Total Depth: Slate and Shells
- 7) Approximate fresh water strata depths: 180', 220'
- 8) Approximate salt water depths: 960'
- 9) Approximate coal seam depths: 95', 260', 280', 489'
- 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						
Fresh Water						
Coal	8 1/4"			536	536	Existing Casing
Intermediate	6 5/8"		20	1733	1733	Existing Casing
Production	3"				2440	Existing Casing to be pulled
Production	4 1/2"	M	9.5		2050	65
Tubing	2 3/8"	J	4.6	AS	NEEDED	

PACKERS: Kind Hookwall  
Sizes 4 1/2" x 6 1/4"  
Depths set Approximately 2050'

*RDT*  
*04/07/14*

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804626 Workover Procedure

- 1) Safety first! Hold PJSA before all jobs.
- 2) Prepare road and location, MIRU Service Rig
- 3) Pull 3 ½" tubing and packer. NOTE: If packer will not pull, cut 3 ½" at free-point (approximately 2100') and pull.
- 4) Run open hole logs and evaluate Injun & Big Lime to be sure project is economic
- 5) Run 4 ½" casing to approximately 2100' and cement (Fill up should be from the 4 ½" casing shoe to approximately 1525'). WOC
- 6) Run CBL, swab & perforate
- 7) Stimulate zone or zones as determined from OHL evaluation
- 8) Flow back well starting with 3/8" choke and increasing size as needed
- 9) Finish clean up, check TD, record FOF & FRP
- 10) Reclaim and TIL

RDT  
7/7/14

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WEST VIRGINIA DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Well 804626 WO  
API 47-043-0017W

WELL RECORD

Permit No. Lin-171

Oil or Gas Well Gas  
(Kind)

Company UNITED FUEL GAS COMPANY  
Address CHARLESTON, W. VA.  
Farm Horse Creek Land & Mining Co., Acres 11,324  
Location (waters).....  
Well No. 4626 Elev. 1050'  
District Duval County Lincoln  
The surface of tract is owned in fee by.....  
Address.....  
Mineral rights are owned by.....  
Address.....  
Drilling commenced July 16, 1936  
Drilling completed October 15, 1936  
Date shot October 8, 1936 Depth of shot.....  
Open Flow 10 /10ths Water in 2 Inch  
5 /10ths Merc. in 2 Inch  
Volume..... 544,000 Cu. Ft.  
Rock Pressure 475# Shale lbs. hrs.  
300# Berea lbs. hrs.  
Oil..... bbls., 1st 24 hrs.  
Fresh water 180 feet 230 feet  
Salt water 960 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer.....
13			<u>Hook Well</u>
10			Size of.....
8 1/4	<u>536'8"</u>	<u>536'8"</u>	<u>3 x 6-5/8"</u>
6 5/8	<u>1733'4"</u>	<u>1733'4"</u>	Depth set.....
5 3/16			
3		<u>2440'9"</u>	Perf. top..... -
2			Perf. bottom..... -
Liners Used.....			Perf. top..... -
			Perf. bottom..... -

CASING CEMENTED..... SIZE..... No. FT..... Date.....  
COAL WAS ENCOUNTERED AT 95 FEET 36" INCHES  
260 FEET 36 INCHES 280 FEET 48 INCHES  
489 FEET 48 INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Clay			0	16			
Slate			16	40			
Sand			40	90			
Slate			90	95			
Coal			95	98			
Slate			98	105			
Sand			105	235	Water	180'	
Slate			235	260	Water	230'	
Coal			260	263			
Slate			263	280			
Coal			280	284			
Slate			284	320			
Sand			320	465			
Slate			465	477			
Lime			477	489			
Coal			489	493			
Slate			493	527			
Lime			527	590			
Sand			590	630			
Slate			630	748			
Sand			748	785			
Slate & Lime			785	823			
Lime			823	833			
Slate			833	853			
Salt Sand			853	1019	Water	960'	
Slate			1019	1050			
Salt Sand			1050	1080			
Slate			1080	1124			
Salt Sand			1124	1252			
Slate			1252	1307			
Salt Sand			1307	1335			
Slate Shells			1335	1345			
Salt Sand			1345	1390			
White Slate			1390	1395			
Salt Sand			1395	1530			
Red Rock			1530	1555			
Slate & Shells			1555	1625			
Maxon Sand			1625	1666			
Black Slate			1666	1670			

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See 171

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Little Lime			1670	1709			Well 804626 WD API 47-043-00171
Pencil Cave			1709	1714			
Big Lime			1714	1925			
Red Injun Sand			1925	1946			
Slate & Shells			1946	2355			
Lime Shell			2355	2367			
Slate			2367	2390			
Brown Shale			2390	2405	Gas		
Berea Grit			2405	2430	Gas	2409-2414	
Slate			2430	2435	Gas	2414-2415	
Lime			2435	2460			
Slate			2460	2666			
Lime			2666	2686			
Slate & Shells			2686	3175			
Sandy Shell			3175	3185			
Slate			3185	3340			
Shell			3340	3352	Gas		
Slate			3352	3398	Gas	3352-3358	
Shell			3398	3570	Gas	3398	
Brown Shale			3570	3985	Gas	3570-3576	
White Slate			3985	4334	Gas	3928-3938	
Brown Shale			4334	4561			
C. Lime			4561	4566			
Total depth				4566			

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Date....., 19.....  
APPROVED UNITED FUEL GAS COMPANY, Owner  
By.....  
(Title) Engineer

4300171W

WW2-A  
(Rev. 6-07)

- 1) Date: June 23, 2014
- 2) Operator's Well Number 804626 WO  
State County Permit
- 3) API Well Number 47 - 043 - 00171

OK #516 5460  
#650.00

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

- |  |  |
|--|--|
| <p>4) Surface owner(s) to be served:</p> <p>(a) Name: Thomas Stowers ✓<br/>Address: 114 Morton Drive<br/>Hamlin, WV 25523</p> <p>(b) Name: Dorsel Stowers ✓<br/>Address: 8126 Straight Fork<br/>Hamlin, WV 25523</p> <p>(c) Name:<br/>Address:</p> | <p>5) (a) Coal Operator: ✓<br/>Name: Robin Land Company, LLC<br/>Address: 500 Lee Street East, Suite 900<br/>Charleston, WV 25301</p> <p>b) Coal Owner(s) with Declaration: ✓<br/>Name: Horse Creek Coal Land<br/>Address: 300 Capitol Street, Suite 1503<br/>Charleston, WV 25301</p> <p>Name:<br/>Address:</p> <p>(c) Coal Lessee with Declaration: ✓<br/>Name: Robin Land Company, LLC<br/>Address: 500 Lee Street East, Suite 900<br/>Charleston, WV 25301</p> |
|--|--|
- 6) Inspector:  
Name: Ralph Triplett  
Address: 5539 McClellan Highway  
Branchland, WV 25506  
Telephone: 304-389-0350

**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 30<sup>th</sup> day of June 2014

[Signature: 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](mailto:depprivacyofficer@wv.gov).



08/15/2014



Well 804626 WO  
 API 47-043-00518W

4300171W

7012 3460 0000 4499 2555

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CHARLESTON WV 25301

**OFFICIAL USE**

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Certified Fee	\$ 3.30	01	
Return Receipt Fee (Endorsement Required)	\$ 2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 17.61</b>		07/07/2014

Sent To  
 Street, Apt. or PO Box  
 City, State

**804626 WO**  
 Horse Creek Coal Land  
 300 Capitol Street, Suite 1503  
 Charleston, WV 25301

PS Form 3800

7012 3460 0000 4499 3040

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CHARLESTON WV 25301

**OFFICIAL USE**

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Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 17.61</b>		07/07/2014

Sent To  
 Street, Apt. or PO Box  
 City, State

**804626 WO**  
 Robin Land Company, LLC  
 500 Lee Street  
 Charleston, WV 25301

PS Form 3800

7012 3460 0000 4499 2982

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HAMLIN WV 25523

**OFFICIAL USE**

Postage	\$ 11.61	0523	
Certified Fee	\$ 3.30	01	
Return Receipt Fee (Endorsement Required)	\$ 2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 17.61</b>		07/07/2014

Sent To  
 Street, Apt. or PO Box  
 City, State

**804626 WO**  
 Thomas Stowers  
 114 Morton Drive  
 Hamlin, WV 25523

PS Form 3800

7012 3460 0000 4499 2609

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HAMLIN WV 25523

**OFFICIAL USE**

Postage	\$ 11.61	0523	
Certified Fee	\$ 3.30	01	
Return Receipt Fee (Endorsement Required)	\$ 2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 17.61</b>		07/07/2014

Sent To  
 Street, Apt. or PO Box  
 City, State

**804626 WO**  
 Dorsel Stowers  
 8126 Straight Fork  
 Hamlin, WV 25523

PS Form 3800

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 WV Department of  
 Environmental Protection

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WW2-B1  
(5-12)

Operator's Well Number: 804626 WO  
API Well Number: 47 - 043 - 00171 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.

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COAL OPERATOR, OWNER, OR LESSEE WAIVER

County: Lincoln

Operator's Well Number: 804626

Operator: Chesapeake Appalachia, L.L.C.

API Well Number: 47 - 043 - 00171

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 [checked] / 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.

FOR EXECUTION BY A NATURAL PERSON

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

Received

JUL 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

FOR EXECUTION BY A CORPORATION, ETC.

Company Name: Horse Creek Land & Mining Co.

By: J. Lewis Payne

Its: Treasurer

Signature: [Signature] Date: 7/10/14



Operator's Well Number: 804626 WO

API Well Number: 47- 043 - 00171

**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>
South Penn Oil Company	Horse Creek Land & Mining Co.	1/8	40 / 1

**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:

By:

Its:

Chesapeake Appalachia, L.L.C.

David Gocke

Manager – Operations, Appalachia South

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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) Bear Branch of Peters Cave Fork Quadrangle Griffithsville, WV 7.5'

Elevation: 1087' County: Lincoln District: Duval

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 X

If so, please describe anticipated pit waste: Cement and Frac Water  
Will a synthetic liner be used in the pit? Yes X 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? \_\_\_\_\_

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 Signature *David Gocke*

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

Subscribed and sworn before me this 30<sup>th</sup> day of June 2014



*Phyllis A. Copley* Notary Public

My Commission expires September 16, 2018

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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.

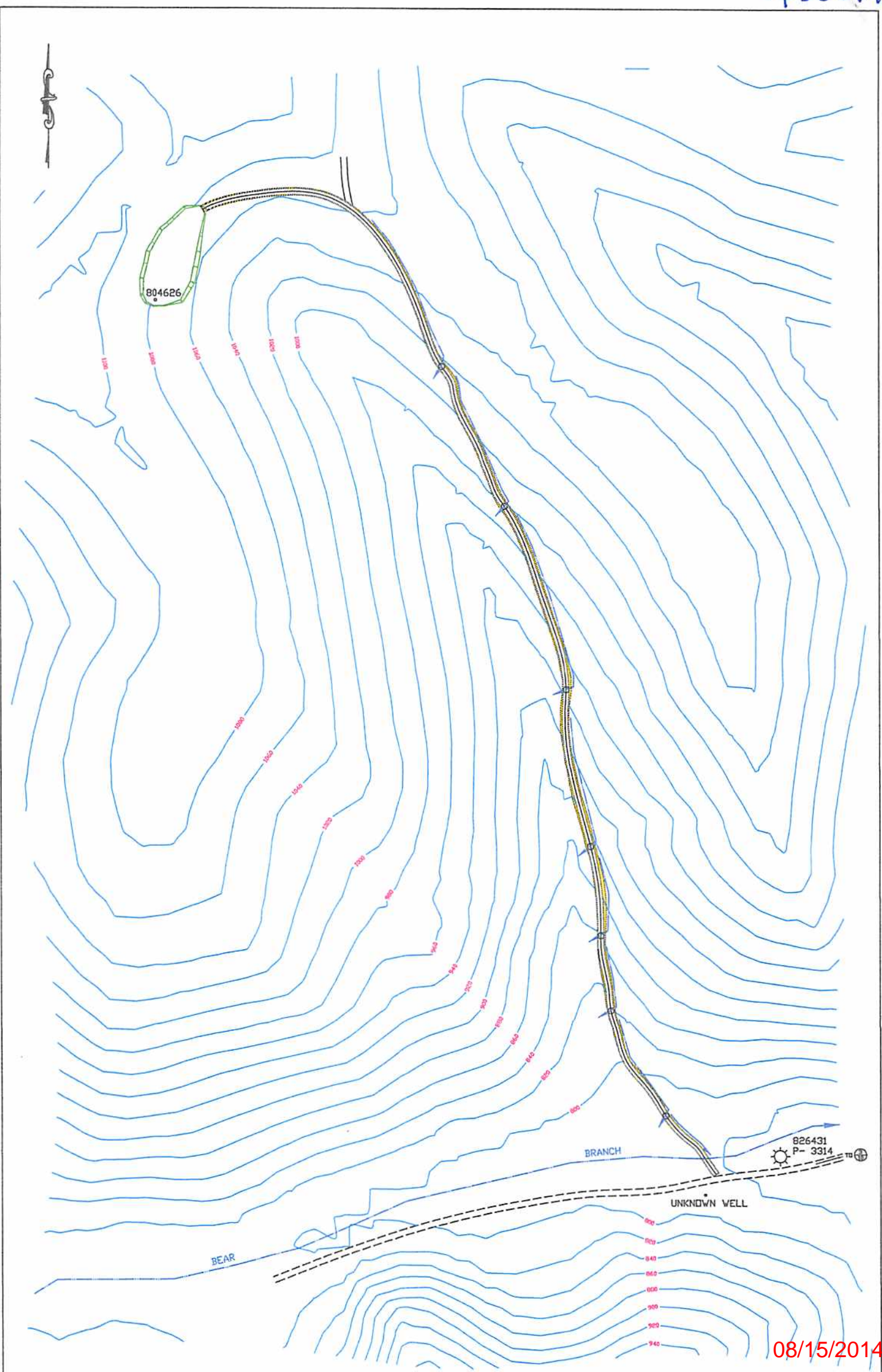
Plan Approved: Ralph D. Triplett

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

Title: District Inspector Date: 7/07/14

Field Reviewed?  Yes  No

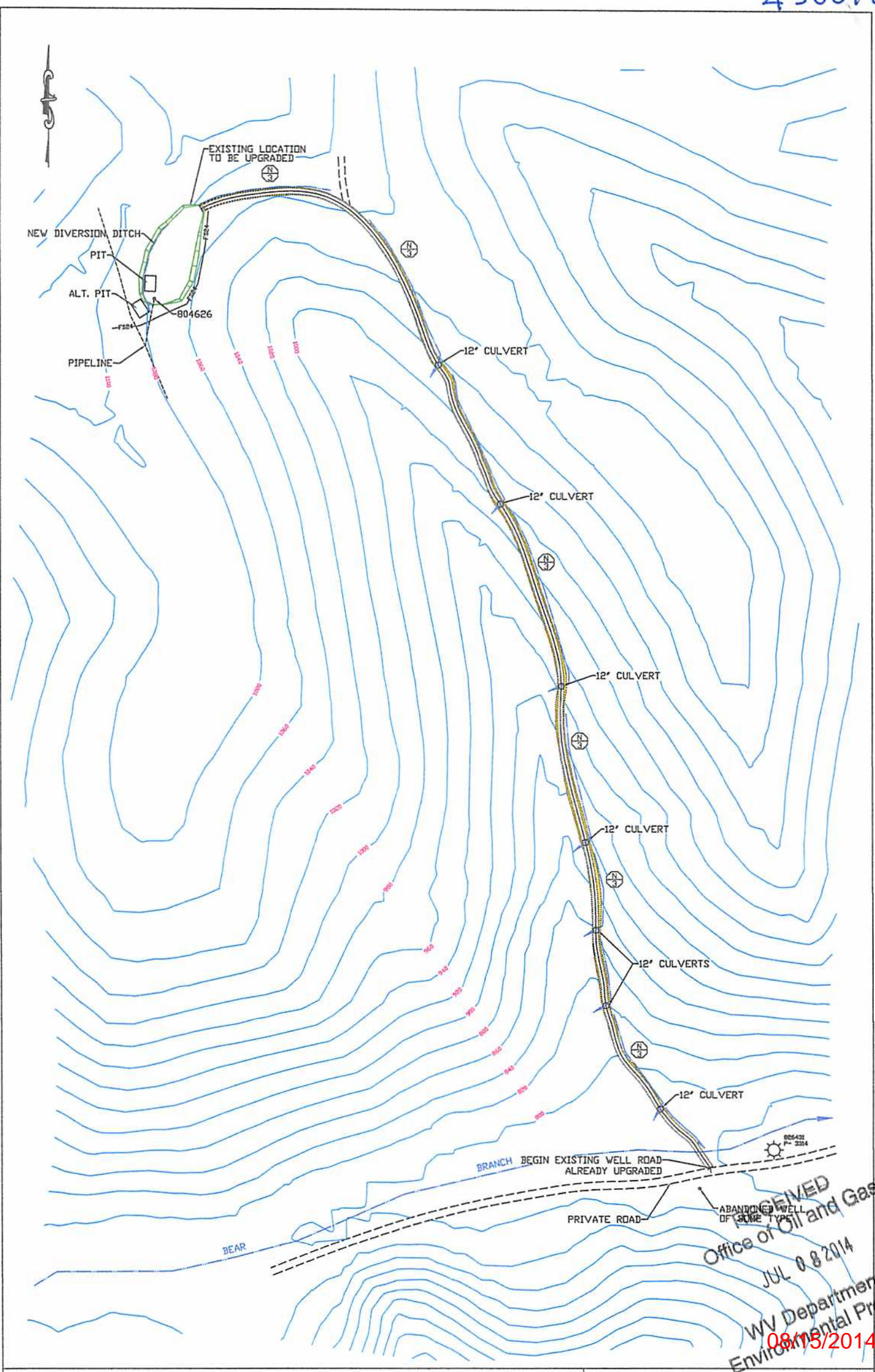
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Office of Oil and Gas  
JUL 08 2014  
WV Department of  
Environmental Protection  
08/15/2014



08/15/2014

DISTURBED AREAS		LEGEND		SITE PLAN	
EXISTING WELL PAD	041 AC.		STREAM	CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKOVER OF WELL 804626 DUVAL DISTRICT, LINCOLN COUNTY GRIFFITHSVILLE QUAD, WV 7.5'	
EXISTING ACCESS ROAD	0.57 AC.		PROPERTY LINE		
ADDITIONAL CLEARING			SLOPE AREA	JUNE 16, 2014	
			WETLAND	TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705	
TOTAL DISTURBED AREA	0.98 AC		BUFFER AREA	PAGE <u>1</u> OF <u>1</u>	

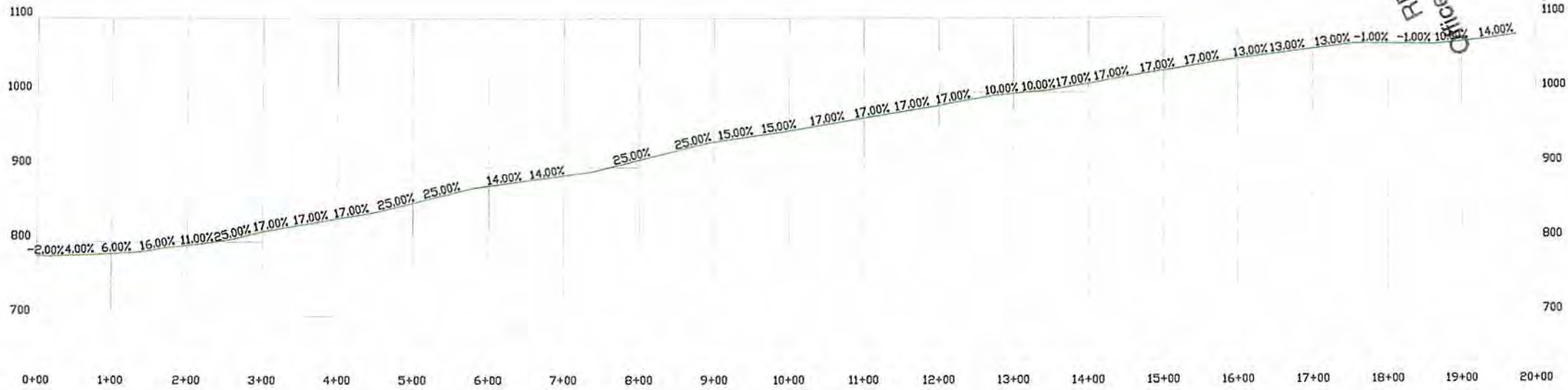




LEGEND		EROSION AND SEDIMENT CONTROL PLAN	
	PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXABLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES		STREAM
	LEVEL SPREADER		PROPERTY LINE
	DIVERSION DITCH		SLOPE AREA
	BERM OUTLET		WETLAND
			24' COMPOST FILTER SOCK AS REQUIRED
		CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKOVER OF WELL # 804626 DUVAL DISTRICT, LINCOLN COUNTY GRIFFITHSVILLE QUAD, WV 7.5'	
		JUNE 16, 2014	
		TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705	
		PAGE 1 OF 1	

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JUL 08 2014  
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08/15/2014

4300171w



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 WV Department of  
 Environmental Protection

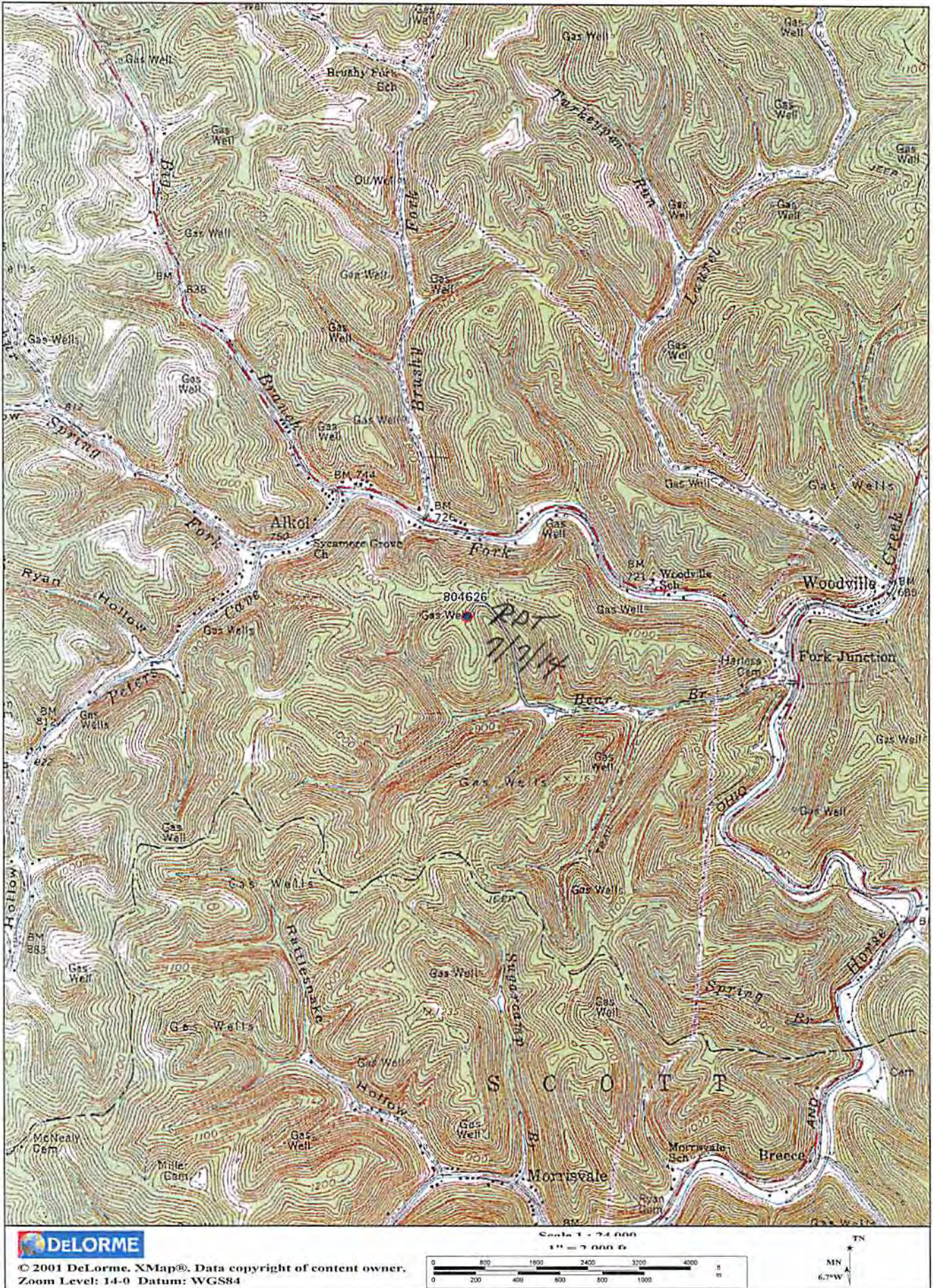
ROAD PROFILE	
CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKOVER OF WELL 804626	
DUVAL DISTRICT, LINCOLN COUNTY GRIFFITHSVILLE QUAD, WV 7.5'	
JUNE 16, 2014	
TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705	
PAGE <u>1</u> OF <u>1</u>	





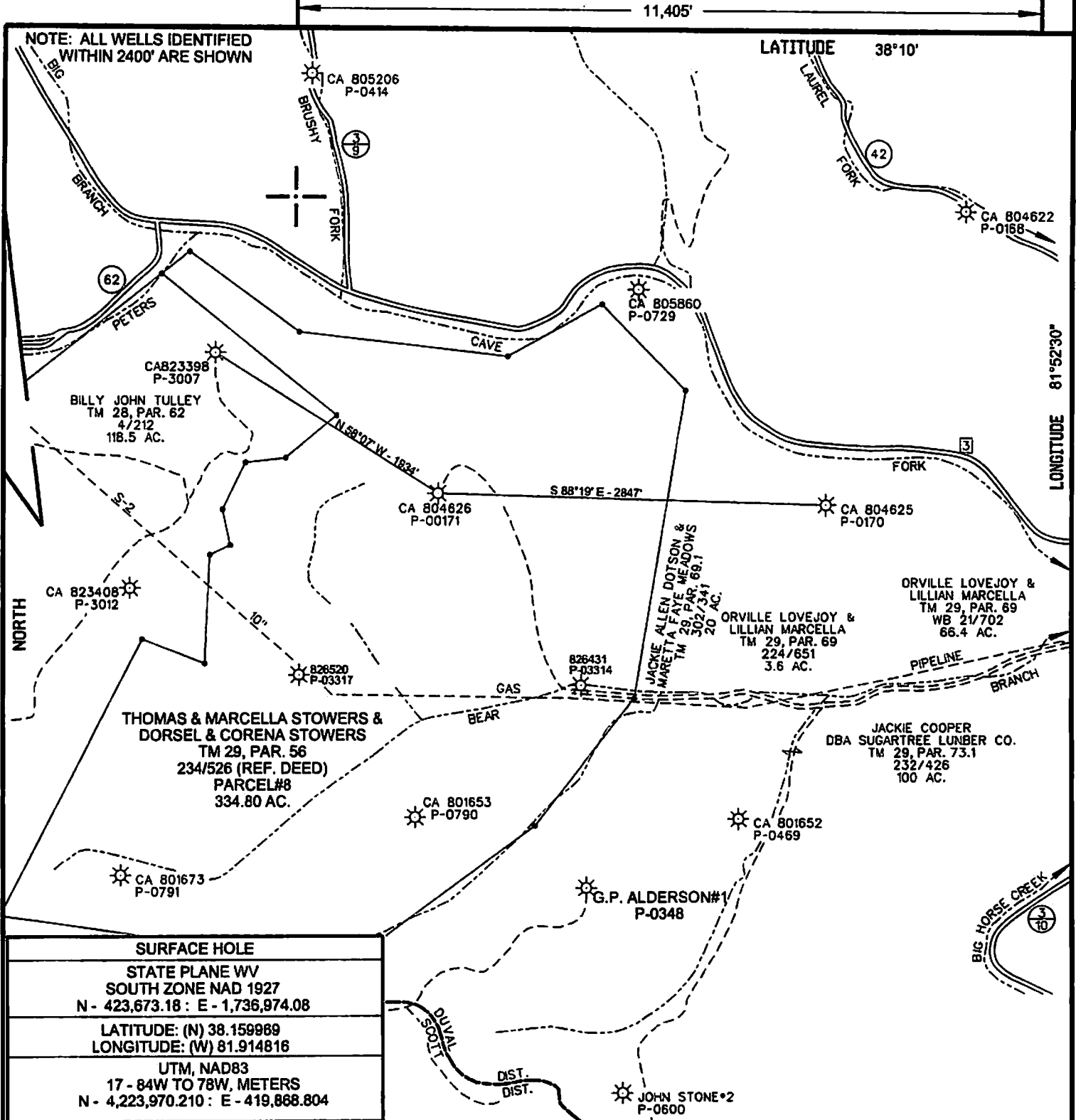
Well 804626 WO

API 47-043-00171W



RECEIVED  
 Office of Oil and Gas  
 JUL 08 2014  
 TN Department of  
 Environmental Protection  
 08/15/2014





<b>SURFACE HOLE</b>
STATE PLANE WV SOUTH ZONE NAD 1927 N - 423,673.18 : E - 1,736,974.08
LATITUDE: (N) 38.159989 LONGITUDE: (W) 81.914816
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,223,970.210 : E - 419,868.804

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

FILE NO. CA804626WO.DGN  
 DRAWING NO. CA 804626 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 19, 20 14  
 OPERATOR'S WELL NO. 804626  
 API WELL NO. 47 043 00171 W  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1087 WATER SHED BEAR BRANCH OF PETERS CAVE FORK  
 DISTRICT DUVAL COUNTY LINCOLN  
 QUADRANGLE GRIFFITHSVILLE, WV 7.5'

SURFACE OWNER THOMAS & MARCELLA STOWERS - DORSEL & CORENA STOWERS ACREAGE 332.22  
 OIL & GAS ROYALTY OWNER HORSE CREEK LAND & MINING CO. LEASE ACREAGE 10.265  
 LEASE NO. 1-004976-000

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

PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLISPIE  
 ADDRESS PO BOX 18498, OKLAHOMA CITY, OK 73154-0496 ADDRESS P.O. BOX 6070, CHARLESTON, WV 25362

08/13/2014

FORM WV-6

COUNTY NAME

PERMIT