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**west virginia** department of environmental protection

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

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

February 23, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4300583, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: 554  
Farm Name: HUNTINGTON DEV & GAS  
**API Well Number: 47-4300583**  
**Permit Type: Plugging**  
Date Issued: 02/23/2015

**Promoting a healthy environment.**

## 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

CK # 5215705  
100°

1) Date: 12/16/2014  
2) Operator's Well No. 805554 P&A  
3) API Well No. 47-043-00583

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil  Gas  Liquid injection  Waste disposal   
(Is Gas, Production  or Underground storage  ) Deep  Shallow

5) Location: Elevation 785' Watershed Horseshoe Branch of Sixmile Creek  
District Laurel Hill County Lincoln Quadrangle Branchland, WV 7.5'

6) Well Operator Chesapeake Appalachia, L.L.C. 7) Designated Agent Jessica Greathouse  
Address P.O. Box 18496 Address P.O. Box 6070  
Oklahoma City, OK 73154-0496 Charleston, WV 25362

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Ralph Triplett Name Chesapeake Appalachia, L.L.C.  
Address 5539 McClellan Highway Address P.O. Box 18496  
Branchland, WV 25506 Oklahoma City, OK 73154-0496

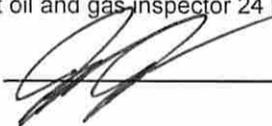
10) Work Order: The work order for the manner of plugging this well is as follows:

See Attached Sheet

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Office of Oil and Gas  
WV Dept. of Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work Order approved by Inspector



Date 12-22-14

## 805554 P&amp;A PROCEDURE

- 1) Run W.S. to top of fill @ approximately 1800', spot gel
- 2) Spot 100' cement plug 1800'-1700', pull W.S. to 1500'
- 3) Spot 100' cement plug 1500'-1400', pull W.S. to 1320'
- 4) Spot 100' cement plug 1320'-1220', pull W.S.
- 5) RIH w/ tools to check TOC - If top of TOC is below 1250' then re-spot plug
- 6) Cut 6 5/8" at free-point (approximately 600') and pull
- 7) Run W.S. to 600', load hole with gel
- 8) Spot 150' cement plug 600'-450', pull W.S.
- 9) Attempt to pull 8 1/4" casing
  - A) If successful
    - a) Run W.S. to 375', spot gel
    - b) Spot 100' cement plug 375'-275'
    - c) Proceed to step #12
  - B) If unsuccessful
    - a) Run W.S. to 375'
    - b) Spot 100' cement plug 375'-275', pull W.S.
    - c) Cut 8 1/4" at free-point (approximately 195') and pull. If unable to pull 170', then rip or shoot holes at 170' and 145'.
    - d) Proceed to step #12
- 10) Pull or run W.S. to 195'
- 11) Spot 195' cement 195' to surface
- 12) Pull W.S. and top off with cement
- 13) Set monument and reclaim as prescribed by law



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Well 805554 WO  
API 47-043-00583W  
Page 7 of 2  
Midriff



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



WELL RECORD

Permit No. LDN-583

Oil or Gas Well GAS  
(KIND)

Company UNITED FUEL GAS COMPANY  
Address Box 1273, Charleston 25, West Virginia  
Farm Huntington Dev. & Gas Co. Acres 17,696  
Location (waters) Six Mile Creek  
Well No. 5554 Elev. 800  
District Laurel Hill County Lincoln  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Huntington Dev. & Gas Co.  
Address Charleston, W. Va.  
Drilling commenced 2-27-45  
Drilling completed 5-23-45  
Date Shot 5-24-45 From 1983 To 3246  
With 12,200# Det.  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume Gas Well \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water NO Record feet \_\_\_\_\_ feet  
Salt water " " feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
18			
10	29	29	Size of _____
8 3/4	302	302	
6 3/4	1261	1261	Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used _____			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 160 FEET 48 INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top.	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	40			
Slate			40	70			
Sand			70	160			
Coal			160	164			
Slate			164	170			
Sand			170	240			
Slate			240	260			
Sand			260	315			
Slate			315	370			
Sand			370	430			
Slate			430	550			
Lime Shells			550	575			
Salt Sand			575	1030			
Slate			1030	1050			
Red Rock			1050	1055			
Lime			1055	1090			
Sand			1090	1125			
Red Slate			1125	1130			
Blue Slate			1130	1140			
Lime Shell			1140	1170			
Red Rock			1170	1180			
Lime Shell			1180	1200			
Slate			1200	1205			
Maxon Sand			1205	1215			
Black Lime			1215	1245			
Pencil Cave			1245	1251			
Big Lime			1251	1412	Gas		
Keener Sand			1412	1447			
Red Rock			1447	1456			
Injun Sand			1456	1487	Gas		
Blue Slate			1487	1515			
Gray Sand			1515	1586			
Slate & Shells			1586	1800			
Blue Slate			1800	1927			
Slate & Shells			1927	1942			
Coffee Shale			1942	1980			
Berea			1980	2000			
Slate & Lime Shells			2000	2650			

RECEIVED  
Office of Oil and Gas  
1460-1470 JUL 08 2014  
WV Department of Environmental Protection

WV 805554 API 4-7-043-01

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Brown Shale			2850	2940			
Black Shale			2940	3145	Gas	3025	
White Slate			3145	3150	Gas	3185-3200	
Black Shale			3150	3226			
White Slate			3226	3246			
Total Depth				3246 SLM			

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WV Department of Environmental Protection

Date June 22, 2014  
APPROVED UNITED FUEL GAS COMPANY Owner  
By A. Cunningham (Title)



4300583P

WW4-A  
Revised  
2/01

1) Date: 12/16/2014  
2) Operator's Well No. 805554 P&A  
3) API Well No. 47-043-00583

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:  
(a) Name Please see attached page  
Address for a list of surface owners  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
6) Inspector Ralph Triplett  
Address 5539 McClellan Highway  
Branchland, WV 25506  
  
Telephone 304-389-0350

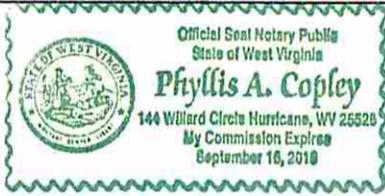
5) Coal Operator  
(a) Name None  
Address \_\_\_\_\_  
  
Coal Owner(s) with Declaration  
(b) Name Pocahontas Land Corporation  
Address 800 Princeton Avenue  
Bluefield, WV 24701  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
Coal Lessee with Declaration  
(c) Name None  
Address \_\_\_\_\_  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed the Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of the Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator: Chesapeake Appalachia, L.L.C.  
By: [Signature]  
Its: Completion Superintendent, Appalachia South  
Address: P.O. Box 18496  
Oklahoma City, OK 73154-0496  
Telephone: 405-935-4073

Subscribed and sworn before me this 16<sup>th</sup> day of December the year of 2014  
Phyllis A. Copley Notary Public  
My Commission Expires September 16, 2018

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Office of Oil and Gas  
WV Dept. of Environmental Protection

4300583P

API: 47-043-00583

805554 P&A

Surface Owners:

- ✓ Jerry Chapman  
P.O. Box 142  
Midkiff, WV 25540
- ✓ Joe McCallister  
188 Coon Creek  
Culloden, WV 25510
- ✓ Steven Rothbard  
2516 South Bonarden Lane  
Tempe, AZ 85282
- ✓ Sandra Miller  
437 Six Mile Road  
Branchland, WV 25506

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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>\$ 7.82</b>	<b>12/16/2014</b>

Sent To: 805554 P&A  
 Pocahontas Land Corp.  
 800 Princeton Avenue  
 Bluefield, WV 24701

7010 3090 0002 9275 3332

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**TEMPE AZ 85282**

**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>\$ 7.82</b>	<b>12/16/2014</b>

Sent To: 805554 P&A  
 Steven Rothbard  
 2516 South Bonarden Lane  
 Tempe, AZ 85282

7010 3090 0002 9275 3356

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**MIDKIFF WV 25540**

**OFFICIAL USE**

Postage	\$ 1.82	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>\$ 7.82</b>	<b>12/16/2014</b>

Sent To: 805554 P&A  
 Jerry Chapman  
 P.O. Box 142  
 Midkiff, WV 25540

7010 3090 0002 9275 3349

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**BRANCHLAND WV 25506**

**OFFICIAL USE**

Postage	\$ 1.82	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>\$ 7.82</b>	<b>12/16/2014</b>

Sent To: 805554 P&A  
 Sandra Miller  
 437 Six Mile Road  
 Branchland, WV 25506

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**CULLODEN WV 25510**

**OFFICIAL USE**

Postage	\$ 1.82	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>\$ 7.82</b>	<b>12/16/2014</b>

Sent To: 805554 P&A  
 Joe McCallister  
 188 Coon Creek  
 Culloden, WV 25510

Received  
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 JAN 15 2015

Copy - original sent  
 with P&A application  
 on 12-16-14

Well 805554 P4A  
 API 47-043-00583



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



Page 7 of 2  
 Midkiff

**WELL RECORD**

Permit No. LIN-583

Oil or Gas Well GAS  
 (KIND)

Company UNITED FUEL GAS COMPANY  
 Address Box 1273, Charleston 25, West Virginia  
 Farm Huntington Dev. & Gas Co. Acres 17,696  
 Location (waters) Six Mile Creek  
 Well No. 5554 Elev. 800  
 District Laurel Hill County Lincoln  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by Huntington Dev. & Gas Co.  
 Address Charleston, W. Va.  
 Drilling commenced 2-27-45  
 Drilling completed 5-23-45  
 Date Shot 5-24-45 From 1983 To 3246  
 With 12,200# Det.  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
 /10ths Merc. in \_\_\_\_\_ Inch  
 Volume Gas Well \_\_\_\_\_ Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water No Record feet  
 Salt water " " feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packor
18			
10	29	29	Size of
8 1/4	302	302	
6 3/4	1261	1261	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT 160 FEET 48 INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	40			
Slate			40	70			
Sand			70	160			
Coal			160	164			
Slate			164	170			
Sand			170	240			
Slate			240	260			
Sand			260	315			
Slate			315	370			
Sand			370	430			
Slate			430	550			
Lime Shells			550	575			
Salt Sand			575	1030			
Slate			1030	1050			
Red Rock			1050	1055			
Lime			1055	1090			
Sand			1090	1125			
Red Slate			1125	1130			
Blue Slate			1130	1140			
Lime Shell			1140	1170			
Red Rock			1170	1180			
Lime Shell			1180	1200			
Slate			1200	1205			
Maxon Sand			1205	1215			
Black Lime			1215	1245			
Pencil Cave			1245	1251			
Big Lime			1251	1412	Gas	1350	rapidly Blew down/
Keener Sand			1412	1447			
Red Rock			1447	1456			
Injun Sand			1456	1487	Gas	1460-1470	
Blue Slate			1487	1515			
Gray Sand			1515	1586			
Slate & Shells			1586	1800			
Blue Slate			1800	1927			
Slate & Shells			1927	1942			
Coffee Shale			1942	1980			
Berea			1980	2000			
Slate & Lime Shells			2000	2650			

(Over)

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 WV Dept. of Environmental Protection

WVDP 805554

47-043-00583

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Brown Shale			2650	2940			
Black Shale			2940	3145	Gas	3025	
White Slate			3145	3150	Gas	3185-3200	
Black Shale			3150	3226			
White Slate			3226	3246			
Total Depth				3246 SLM			

Date June 22, 1945

APPROVED UNITED FUEL GAS COMPANY Owner

By *J. Cunningham* (Title)

Received

DEC 23 1945

Office of Oil and Gas  
WV Dept. of Environmental Protection

API Number 47-043-00583  
Operator's Well No. 805554 P&A

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Chesapeake Appalachia, L.L.C. OP Code 494477557  
Watershed Horseshoe Branch of Sixmile Creek Quadrangle Branchland, WV 7.5'  
Elevation 785' County Lincoln District Laurel Hill

Description of anticipated Pit Waste: Plugging Returns/Cement

Will a synthetic liner be used in the pit? Yes 20 mil

Proposed Disposal Method For Treated Pit Wastes:

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

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Swabbing
- Plugging
- Other (Explain \_\_\_\_\_ )

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *R. E. Schindler*

Company Official (Typed Name) Robert E. Schindler

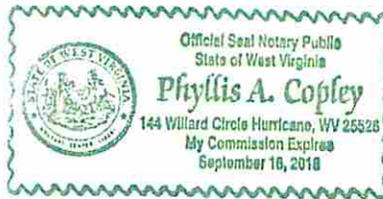
Company Official Title Completion Superintendent, Appalachia South

Subscribed and sworn before me this 11<sup>th</sup> day of December, 2014.

*Phyllis A. Copley*

Notary Public.

My Commission Expires September 16, 2018



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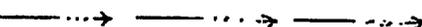
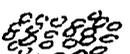
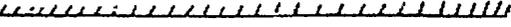
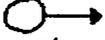
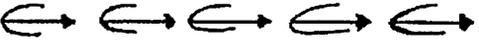
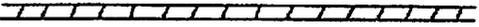
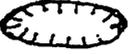
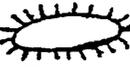
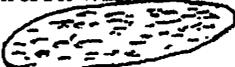
DEC 23 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

Attachment #1

API #: 47-043-00583  
 Operator's Well No. 805554 P&A

LEGEND

- Property Boundary 
- Road 
- Existing Fence 
- Planned Fence 
- Stream 
- Open Ditch 
- Rock 
- North 
- Buildings 
- Water wells 
- Drill site 
- Diversion 
- Spring 
- Wet Spot 
- Drain Pipe with size in inches 
- Waterway 
- Cross Drain 
- Artificial Filter Strip 
- Pit: cut walls 
- Pit: compacted fill walls 
- Area for Land Application of Pit Waste 

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) 1/3 TON lbs/acre (500 lbs minimum)

Mulch Hay 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Title: inspector OOG

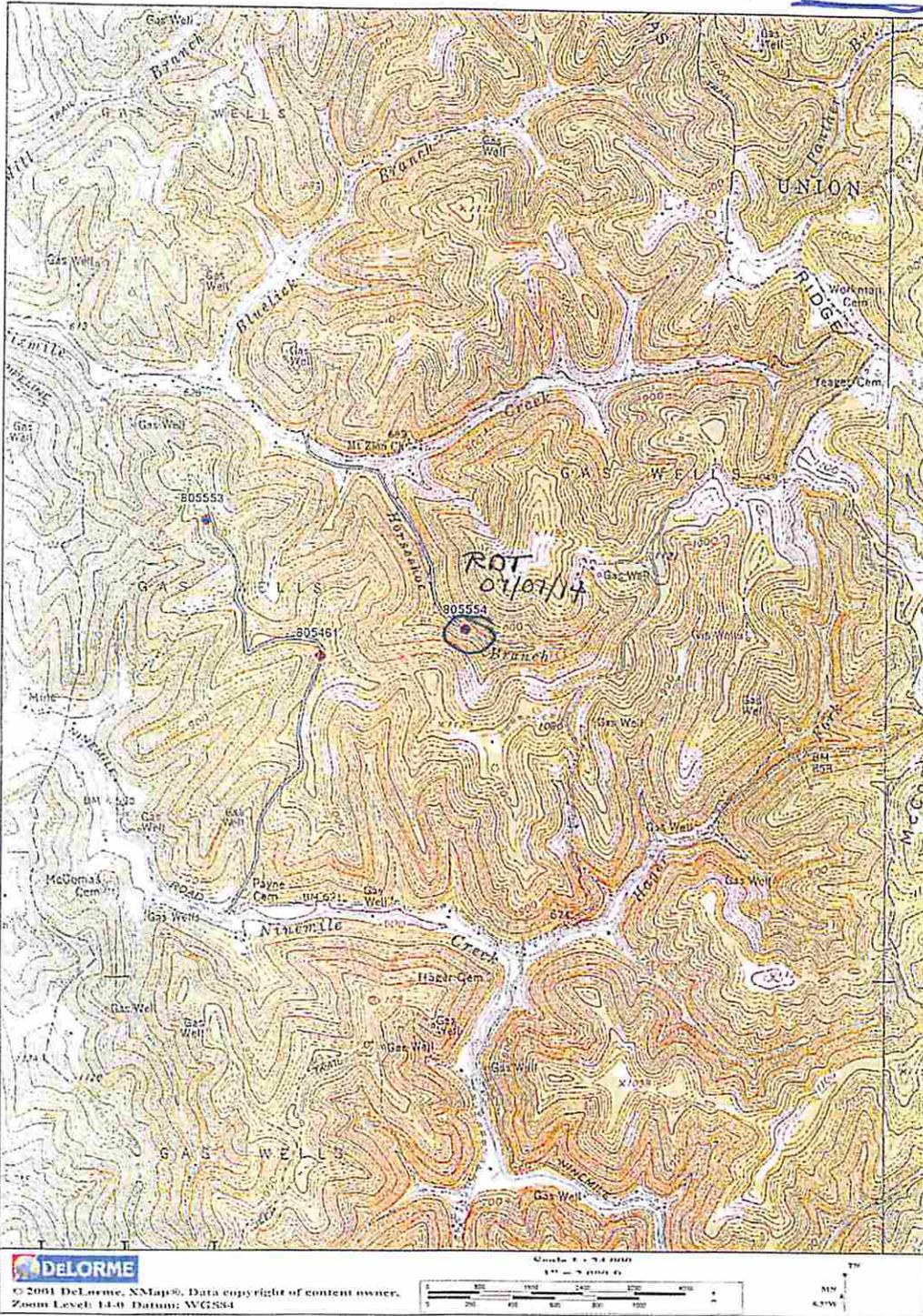
Date: 12-22-14

Field Reviewed? (  ) Yes (  ) No

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well 805554

API 47-043-00583W



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Environmental Protection

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-043-00583 WELL NO.: 805554 P&A

FARM NAME: Huntington Dev & Gas

RESPONSIBLE PARTY NAME: Rob Schindler

COUNTY: Lincoln DISTRICT: Laurel Hill

QUADRANGLE: Branchland, WV

SURFACE OWNER: See Attached Sheet

ROYALTY OWNER: Chesapeake Appalachia, L.L.C.

UTM GPS NORTHING: UTM NADA83 4,226,564.766

UTM GPS EASTING: UTM NADA 83 399,496.472 GPS ELEVATION: 785'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

- Letter size copy of the topography map showing the well location.

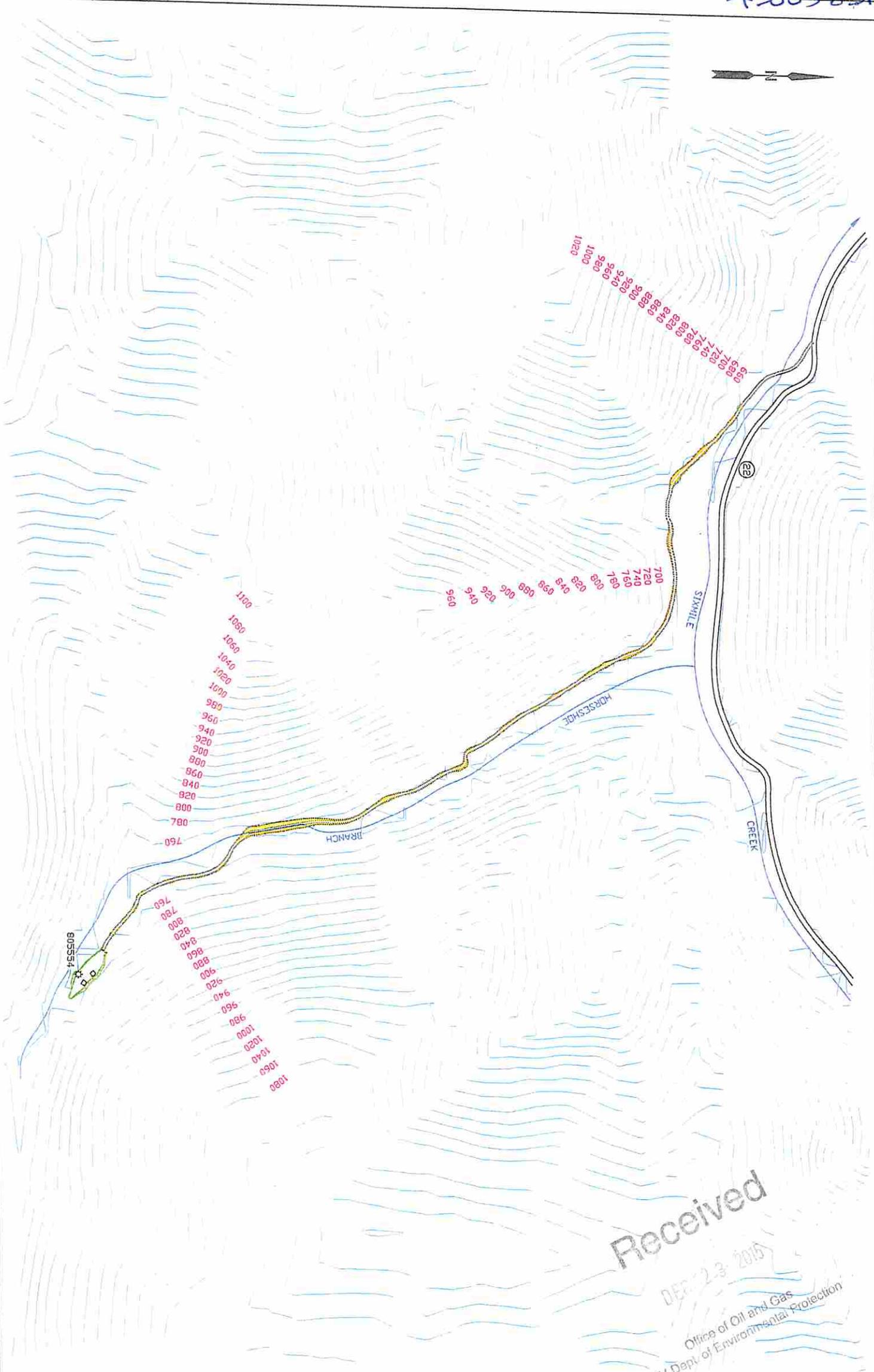
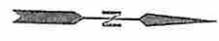
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

R. E. Schmitt  
Signature

Completions Superintendent  
Title

1-12-15  
Date

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JAN 15 2015

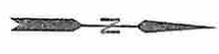


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DISTURBED AREAS		LEGEND		SITE PLAN PVA	
EXISTING WELL PAD	0.25 AC.		STREAM	CHESAPEAKE APPALACHIA, L.L.C.	
EXISTING ACCESS ROAD TO BE UPGRADED	1.47 AC.		PROPERTY LINE	-PROPOSED-WORKOVER WELL # 805554	
ADDITIONAL CLEARING			SLOPE AREA	LAUREL HILL DISTRICT, LINCOLN COUNTY	
			WETLAND	BRANCHLAND QUAD, WV 7.5'	
TOTAL DISTURBED AREA	1.72 AC		BUFFER AREA	MAY 14, 2014	
				TRUE LINE SURVEYING	
				6211 FAIRVIEW DR.	
				HUNTINGTON, WV 25705	
				PAGE 1 OF 1	



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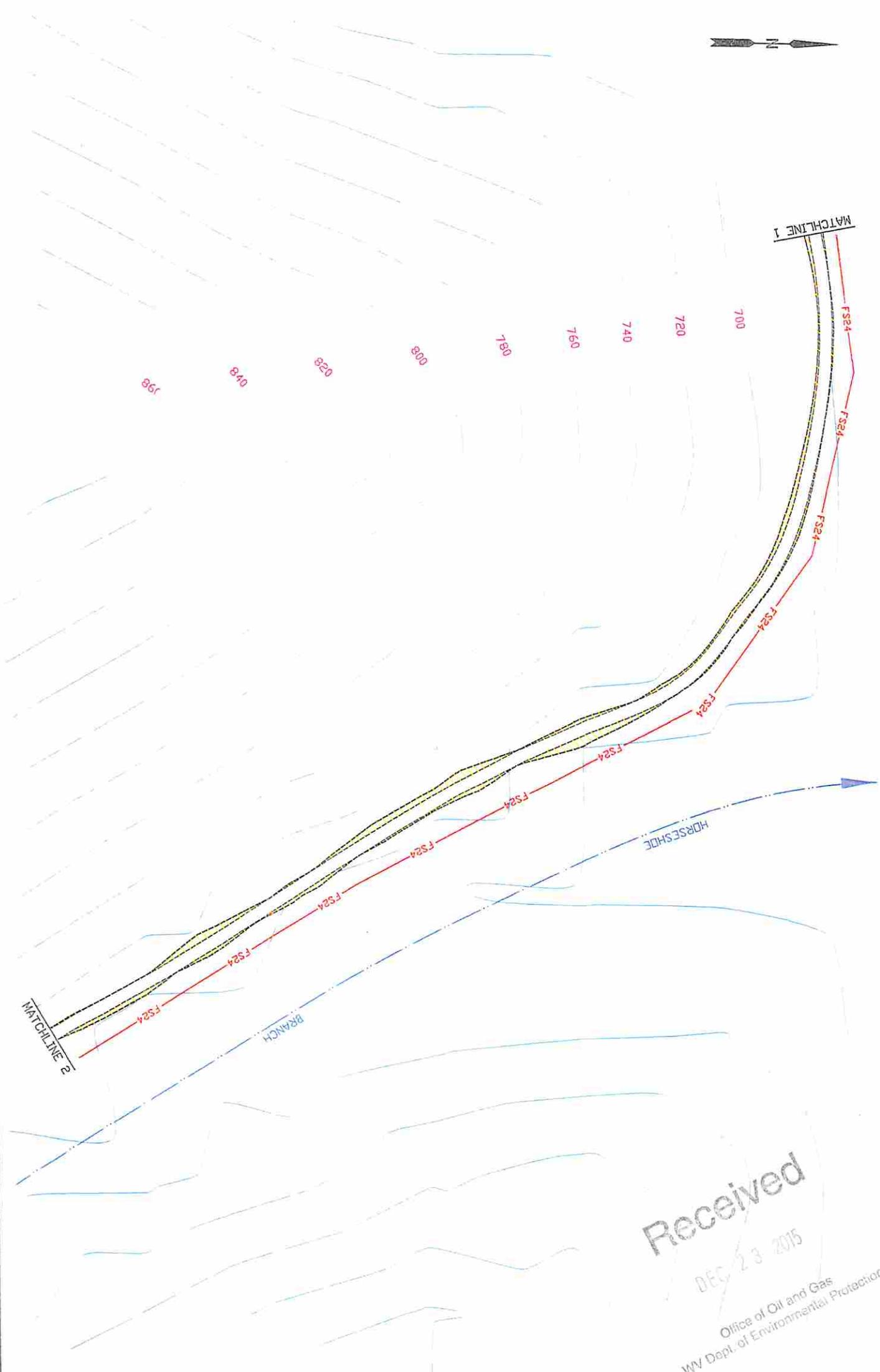
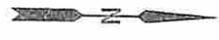
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LEGEND

N 1	PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXIBLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES	— — — — —	STREAM
N 2	LEVEL SPREADER	—————	PROPERTY LINE
N 3	DIVERSION DITCH	▨▨▨▨▨▨▨▨▨▨	SLOPE AREA
N 4	BERM OUTLET	▨▨▨▨▨▨▨▨▨▨	WETLAND
		— F524 —	24" COMPOST FILTER SOCK AS REQUIRED

EROSION AND SEDIMENT CONTROL PLAN

<p><i>put</i></p> <p>CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKOVER WELL # 805554 LAUREL HILL DISTRICT, LINCOLN COUNTY BRANCHLAND QUAD, WV 7.5'</p> <p>MAY 15, 2014</p> <p>TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705</p> <p>PAGE 1 OF 5</p>	
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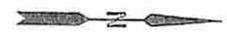
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LEGEND

N 1	PROVIDE FLEXTERRA HIGH PERFORMANACE FLEXABLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES		STREAM
N 2	LEVEL SPREADER		PROPERTY LINE
N 3	DIVERSION DITCH		SLOPE AREA
N 4	BERM OUTLET		WETLAND
			24' COMPOST FILTER SOCK AS REQUIRED

EROSION AND SEDIMENT CONTROL PLAN

<p>CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKOVER WELL # 805554 LAUREL HILL DISTRICT, LINCOLN COUNTY BRANCHLAND QUAD, WV 7.5'</p>	
<p>MAY 15, 2014</p> <p>TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705</p>	
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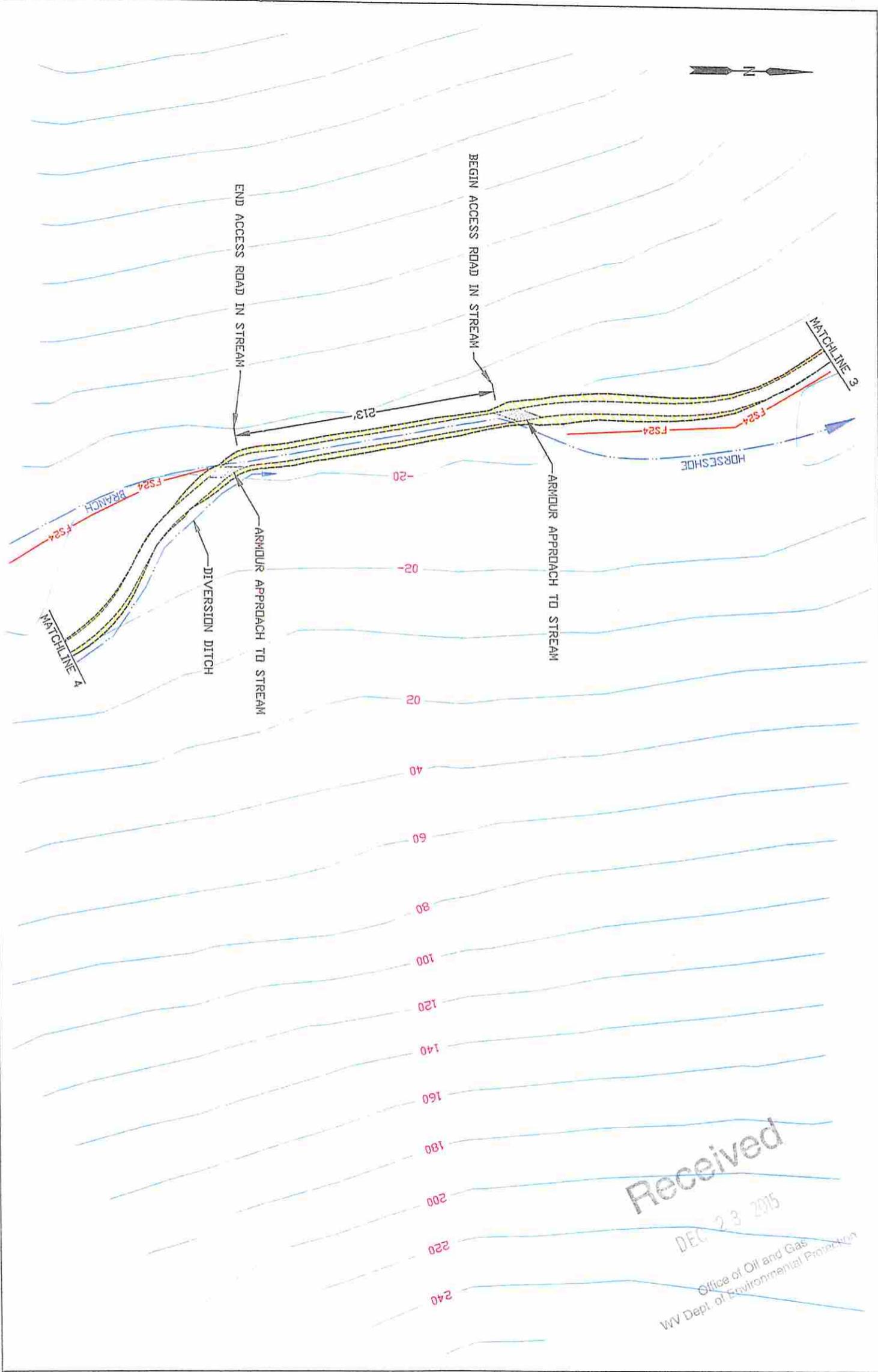
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LEGEND

N 1	PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXIBLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES		STREAM
N 2	LEVEL SPREADER		PROPERTY LINE
N 3	DIVERSION DITCH		SLOPE AREA
N 4	BERM OUTLET		WETLAND
			24' COMPOST FILTER SOCK AS REQUIRED

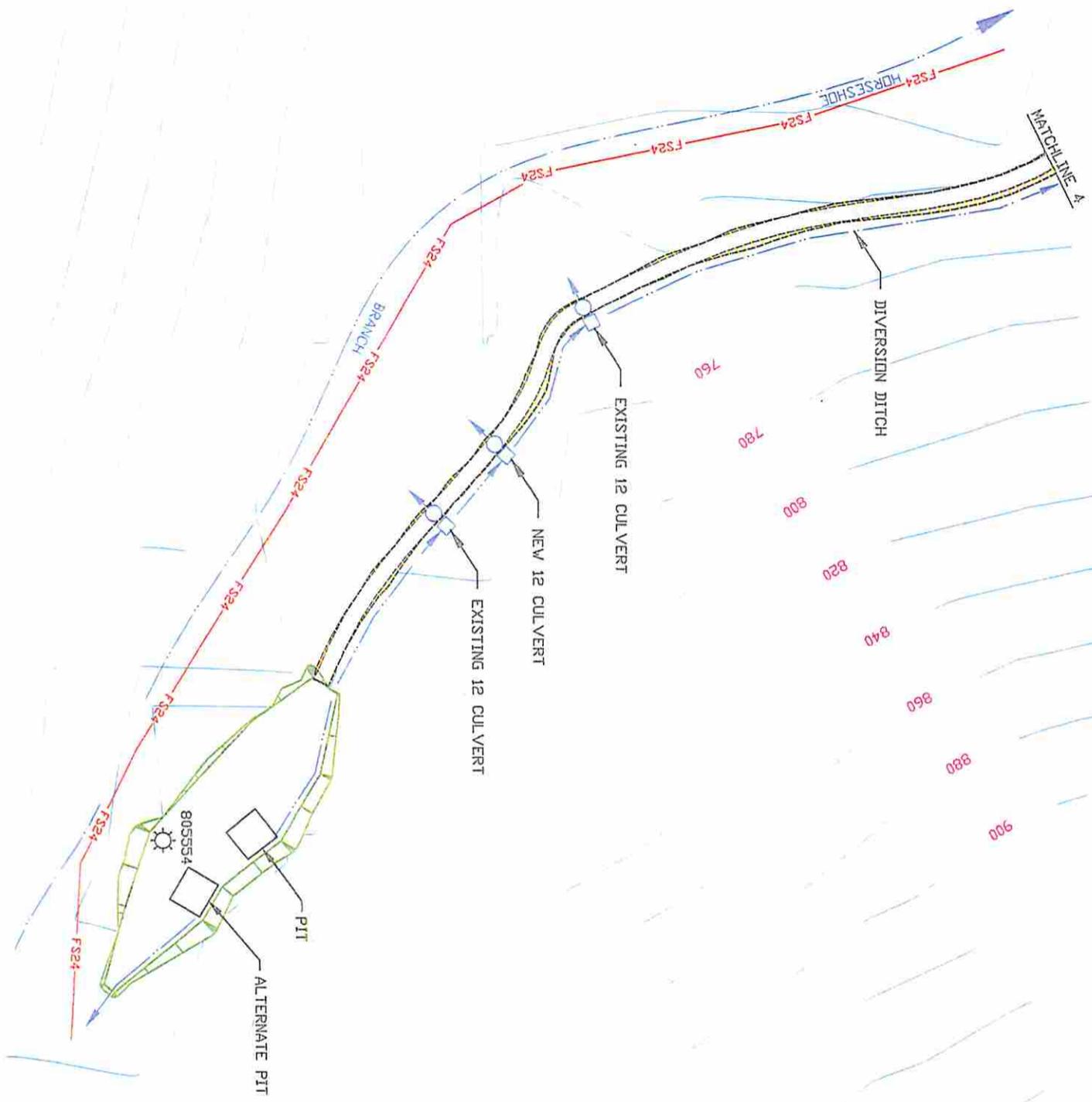
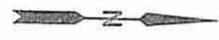
EROSION AND SEDIMENT CONTROL PLAN

<p>CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKOVER WELL # 805554 LAUREL HILL DISTRICT, LINCOLN COUNTY BRANCHLAND QUAD, WV 7.5'</p>	
<p>MAY 15, 2014 TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705</p>	
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LEGEND		EROSION AND SEDIMENT CONTROL PLAN	
N1	PROVIDE FLEXTERRA HIGH PERFORMAMCE FLEXABLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES		STREAM
N2	LEVEL SPREADER		PROPERTY LINE
N3	DIVERSION DITCH		SLOPE AREA
N4	BERM OUTLET		WETLAND
			24" COMPOST FILTER SOCK AS REQUIRED
			FS24
			LAUREL HILL DISTRICT, LINCOLN COUNTY BRANCHLAND QUAD, WV 7.5'
			MAY 14, 2014
			TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705
			PAGE 4 OF 5



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LEGEND

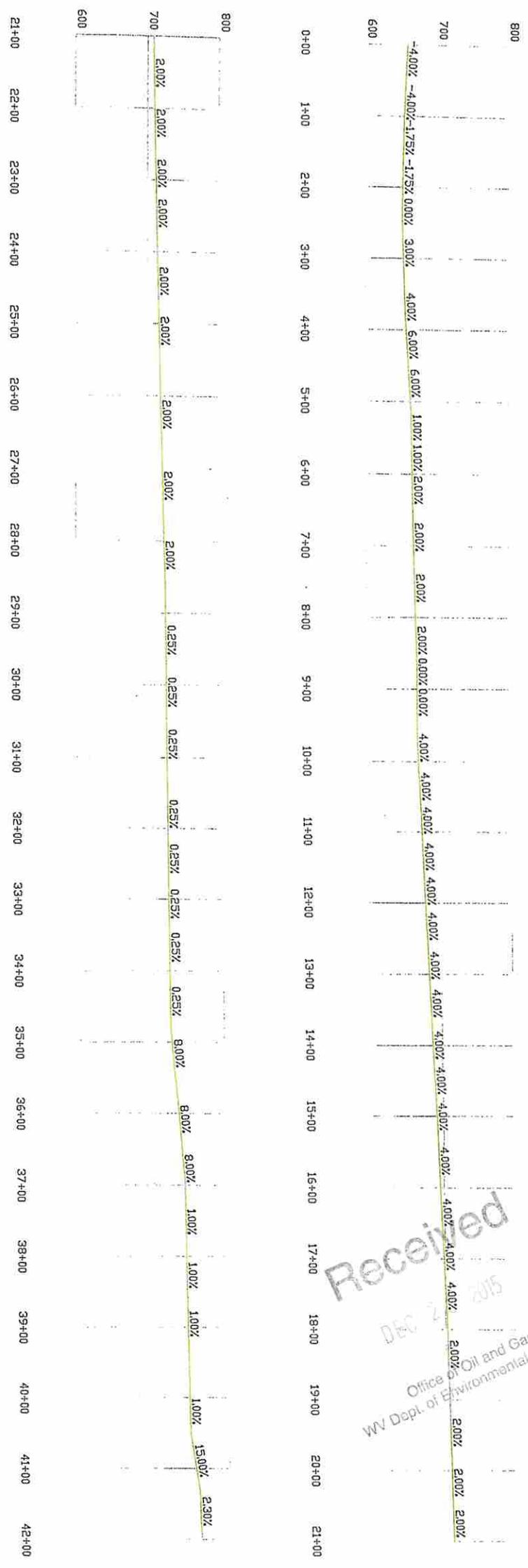
- PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXIBLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES
- LEVEL SPREADER
- DIVERSION DITCH
- BERM OUTLET

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

EROSION AND SEDIMENT CONTROL PLAN

*PWT* CHESAPEAKE APPALACHIA, L.L.C.  
 PROPOSED WORKOVER WELL # 805554  
 LAUREL HILL DISTRICT, LINCOLN COUNTY  
 BRANCHLAND QUAD, WV 7.5'  
 MAY 15 2014  
 TRUE LINE SURVEYING  
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ROAD PROFILE

CHESAPEAKE APPALACHIA, L.L.C.  
 PROPOSED W/ROKOVER WELL # 805554  
 LAUREL HILL DISTRICT, LINCOLN COUNTY  
 BRANCHLAND QUAD, VV 75

MAY 15, 2014  
 TRUE LINE SURVEYING  
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 HUNTINGTON, WV 25705

