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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

March 16, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4300518, 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: 461  
Farm Name: HUNTINGTON DEV & GAS  
**API Well Number: 47-4300518**  
**Permit Type: Plugging**  
Date Issued: 03/16/2015

Promoting a healthy environment.

03/20/2015

## 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.

805461 P&A Procedure

NOTE: 4 1/2" casing was ran to 1840' and cemented. Top of cement is 1350'. Big Injun perforations from 1784'-1794', Big Lime perforations from 1674'-1678'.

- 1) Run W.S. to 1790', load hole with gel
- 2) Spot 290' cement plug 1790'-1500', pull W.S.
- 3) Cut 4 1/2" at free-point (approximately 1300') and pull
- 4) Shoot or rip holes in 6 5/8" at approximately 50' above 4 1/2" cut
- 5) Run W.S. to 1300', spot gel
- 6) Spot 100' cement plug 1300'-1200', pull W.S.
- 7) Cut 6 5/8" at free-point (approximately 930') and pull
- 8) Run W.S. to 930', spot gel
- 9) Spot 100' cement plug 930'-830', pull W.S. to 550'
- 10) Spot 100' cement plug 550'-450', pull W.S.
- 11) Attempt to pull 8 1/4"
  - A) If successful
    - a) Run W.S. to 380', spot gel
    - b) Spot 100' cement plug 380'-280'
    - c) Proceed to step 12
  - B) If unsuccessful:
    - a) Run W.S. to 400'
    - b) Spot 100' cement plug 400'-300', pull W.S.
    - c) Cut 8 1/4" at free-point (approximately 150') and pull
    - d) Proceed to step 12
- 12) Pull or run W.S. to 150'
- 13) Spot 150' cement plug 150'-surface
- 14) Pull W.S. and top off with cement
- 15) Erect monument and reclaim as prescribed by law



03/20/2015

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JAN 22 2015

Copy for inspector to sign

43 00518P

FORM WW-4 (B)  
Observe  
File Copy  
(Rev. 2/01)

1) Date: 1/12/2015  
2) Operator's Well No. 805461 P&A  
3) API Well No. 47-043-00518

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   X   Liquid injection        Waste disposal         
(Is Gas, Production   X   or Underground storage   ) Deep        Shallow   X
- 5) Location: Elevation   1118'   Watershed   Ninemile Creek of Guyan River    
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

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

Work Order approved by Inspector



Date   1-20-15  

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Well 805461  
API 47-043-00518P  
Page 1 of 2

WELL RECORD

Permit No. LIN-518

Oil or Gas Well GAS

Company <u>United Fuel Gas Company</u>		Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Charleston, W. Va.</u>					
Farm <u>Huntington Dev. &amp; Gas Co.</u>	Acres <u>17,695.87</u>	Size			
Location (waters) <u>Nine Mile Creek</u>		16			Kind of Packer
Well No. <u>5461</u>	Elev. <u>1,150 B.</u>	13			
District <u>Laurel Hill</u>	County <u>Lincoln</u>	10	21	21	Size of
The surface of tract is owned in fee by		8 1/4	331	331	
Address		6%	1579	1579	Depth set
Mineral rights are owned by <u>Huntington Dev. &amp; Gas Co.</u>		5 3/16			
Address <u>Charleston, W. Va.</u>		3			Perf. top
Drilling commenced <u>8-18-44</u>		2			Perf. bottom
Drilling completed <u>12-10-44</u>		Liners Used			Perf. top
Date Shot <u>12-14-44</u>	From <u>3204</u> To <u>3549</u>				Perf. bottom
With <u>3300# Detonite</u>					
Open Flow <u>20</u> /10ths Water in	<u>2</u> Inch	CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____			
	/10ths Merc. in _____ Inch				
Volume _____	Cu. Ft.	COAL WAS ENCOUNTERED AT <u>108</u> FEET <u>48</u> INCHES			
Rock Pressure <u>185</u> lbs.	<u>72</u> hrs.	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Oil _____	bbls., 1st 24 hrs.	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Fresh water _____	feet				
Salt water _____	feet				

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	18			
Slate			18	30			
Sand			30	42			
Slate			42	108			
Coal			108	112			
Sand			112	140			
Slate			140	160			
Sand			160	195			
Slate			195	230			
Sand			230	325			
slate			325	375			
Sand			375	400			
Slate			400	435			
Sand			435	455			
Slate & Shells			455	540			
Sand			540	590			
Slate & Shells			590	820			
Sand			820	845			
Slate			845	920			
Salt Sand			920	1008			
Slate			1008	1011			
Sand			1011	1275			
Slate & Shells			1275	1289			
Maxon Sand			1289	1332			
Slate			1332	1335			
Lime Shell			1335	1349			
Slate & Shell			1349	1528			
Little Lime			1528	1554			
Pencil Cave			1554	1558			
Big Lime			1558	1726			
Break			1726	1728			
Injun Sand			1728	1766			
Slate & Shells			1766	2111			
Blue Slate			2111	2310			
Coffee Shale			2310	2323			
Berea Sand			2323	2342			
Slate & Shells			2342	2418			
White Slate			2418	2700			

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Gas 1684-1690

03/20/2015

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Gray Shale			2700	2770			
White Slate			2770	2837			
Gray Shale			2837	3036			
White Slate			3036	3205			
Brown Shale			3205	3535	Gas	3420, 3480	
White Slate			3535	3550			
Total Depth			3550				

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Date Feb. 16, 1945

APPROVED UNITED FUEL GAS COMPANY, Owner

By J. H. Cunningham 03/20/2015  
(Title) Engineer



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WW4-A  
Revised  
2/01

1) Date: 1/12/2015  
2) Operator's Well No. 805461 P&A  
3) API Well No. 47-043-00518

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 Heartwood Forestland Group  
Address C/O Craig Kaderavak  
19045 Stone Mountain Road  
Abingdon, VA 24210

5) Coal Operator  
(a) Name None  
Address \_\_\_\_\_  
\_\_\_\_\_

(b) Name Lois Adkins  
Address 293 Nine Mile Creek  
Midkiff, WV 25540

Coal Owner(s) with Declaration  
(b) Name Pocahontas Land Corporation  
Address 800 Princeton Avenue  
Bluefield, WV 24701

(c) Name Bryan and Lisa Stevens  
Address P.O. Box 473  
Hamlin, WV 25523

Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

6) Inspector Ralph Triplett  
Address 5539 McClellan Highway  
Branchland, WV 25506

Coal Lessee with Declaration  
(c) Name None  
Address \_\_\_\_\_  
\_\_\_\_\_

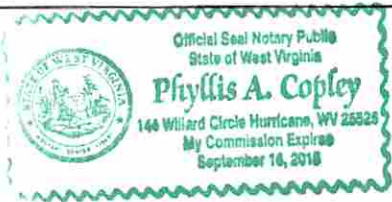
Telephone 304-389-0350

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 15<sup>th</sup> day of January the year of 2015

Phyllis A. Copley Notary Public  
My Commission Expires September 16, 2018

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WV Department of Environmental Protection  
03/20/2015

4300518P

Well 805461 P&A  
API 47-043-00518

Surface Owners

Heartwood Forestland Group  
C/O Craig Kaderavak ✓  
19045 Stone Mountain Road  
Abingdon, VA 24210

Bryan and Lisa Stevens ✓  
P.O. box 473  
Hamlin, WV 25523

Lois Adkins ✓  
293 Nine Mile Creek  
Midkiff, WV 24210

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 Well 805461 P&A  
 API 47-043-00518

7010 3090 0002 9275 3738

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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</b>	<b>\$7.61</b>	<b>01/15/2015</b>

Sent **805461 P&A**  
 Street or P.O. Box **Heartwood Forestland Group**  
 City, State, ZIP+4® **C/O Craig Kaderavak**  
**19045 Stone Mountain Road**  
**Abingdon, VA 24210**

PS Form 3800, August 2004

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Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
<b>Total</b>	<b>\$7.61</b>	<b>01/15/2015</b>

Sent **805461 P&A**  
 Street or P.O. Box **Lois Adkins**  
 City, State, ZIP+4® **293 Nine Mile Creek**  
**Midkiff, WV 25540**

PS Form 3800, August 2004

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Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
<b>Total</b>	<b>\$7.61</b>	<b>01/15/2015</b>

Sent **805461 P&A**  
 Street or P.O. Box **Bryan and Lisa Stevens**  
 City, State, ZIP+4® **P.O. Box 473**  
**Hamlin, WV 25523**

PS Form 3800, August 2004

7010 3090 0002 9275 3721

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**BLUEFIELD WV 24701**

**OFFICIAL USE**

Postage	\$ 1.61	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>\$7.61</b>	<b>01/15/2015</b>

Sent To **805461 P&A**  
 Street, Apt. or PO Box **Pocahontas Land Corporation**  
 City, State, ZIP+4® **800 Princeton Avenue**  
**P.O. Box 1517**  
**Bluefield, WV 24701**

PS Form 3800, August 2004

03/20/2015

4300518 P

Form WW-9  
Rev. 02/01

API Number 47-043-00518  
Operator's Well No. 805461 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 Ninemile Creek of Guyan River Quadrangle Branchland, WV 7.5'  
Elevation 1118' 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 \_\_\_\_\_ )

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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 15<sup>th</sup> day of January, 2015.

*Phyllis A. Copley* Notary Public.

My Commission Expires September 16, 2018

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Attachment #1

API #: 47-043-00518  
 Operator's Well No. 805461 P&A

LEGEND

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

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 O.O.G.

Date: 1-20-15

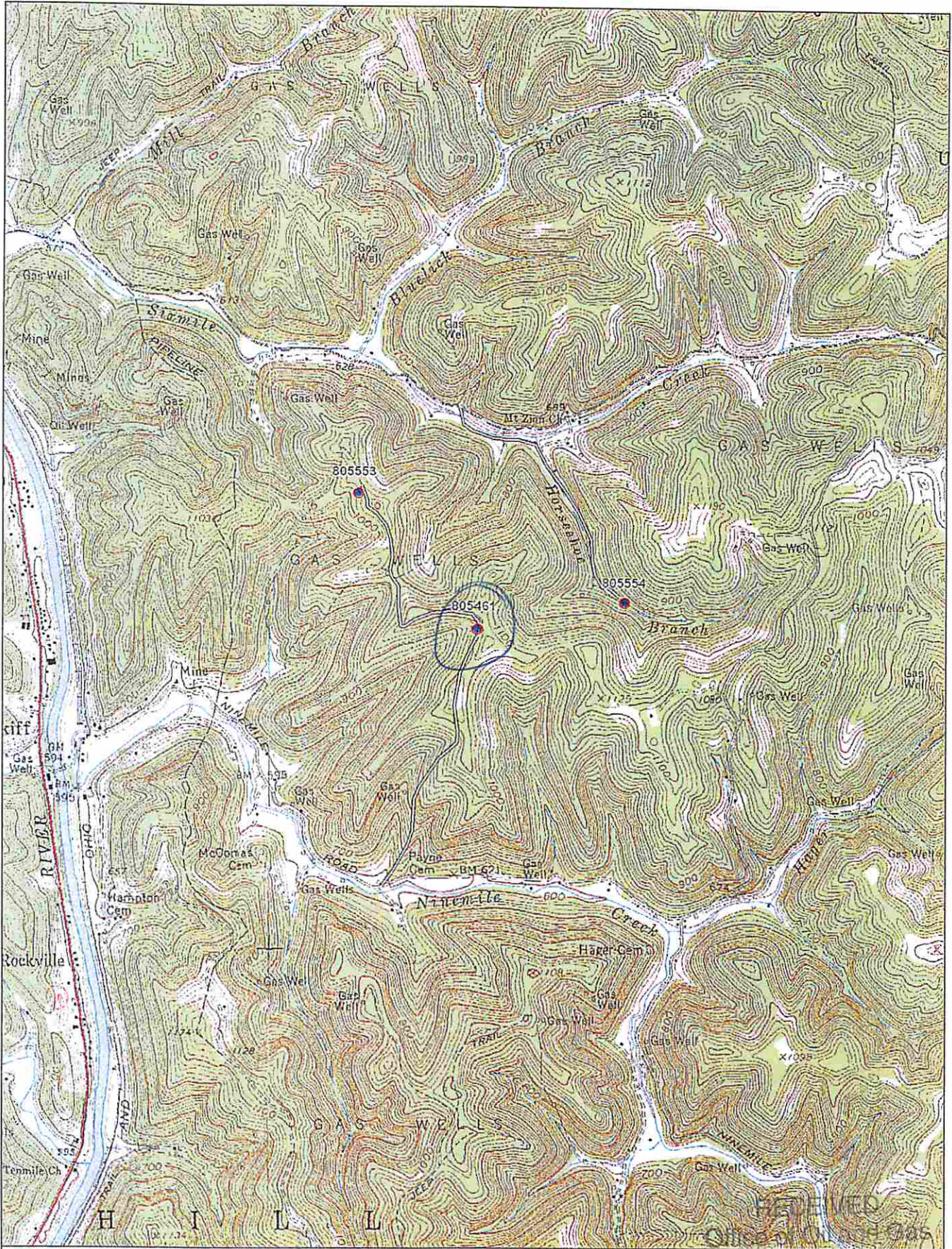
Field Reviewed? (  ) Yes (  ) No

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Well 805461

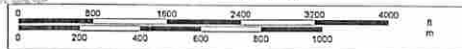
API 47-043-00518 P



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 Zoom Level: 14-0 Datum: WGS84

Office of Oil & Gas

JAN 20 2015



JAN 29 2015

WV Department of Environmental Protection 03/20/2015

WW-7  
8-30-06

43 00518P

CK 5230506  
\$ 100.00



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

API: 47-043-00518 WELL NO.: 805461

FARM NAME: Huntington Dev & Gas Co.

RESPONSIBLE PARTY NAME: Rob Schindler

COUNTY: Lincoln DISTRICT: Laurel Hill

QUADRANGLE: Branchland

SURFACE OWNER: See attached sheet

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

UTM GPS NORTHING: UTM NADA 83 4,226,447.563

UTM GPS EASTING: UTM NADA 83 398,810.671 GPS ELEVATION: 1118'

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:

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

Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

Mapping Grade GPS X: Post Processed Differential X

Real-Time Differential \_\_\_\_

4. 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. Schindler  
Signature

Completions Superintendent  
Title

1-15-15  
Date

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0.103

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 38°12'30"

805553 P-00576

N 40°25' W - 2758'

HORSESHOE BR.

TRIBUTARY NINEMILE

CHESAPEAKE 805460

N 80°18' E - 2283'

805554 P-00583

805461 P-00518

LONGITUDE 82°07'30"

10,246'

NORTH

48

NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

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WV Department of Environmental Protection

<b>BOTTOM HOLE</b>
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 431,804.79 : E - 1,667,871.77
LATITUDE: (N) 38.1801798 LONGITUDE: (W) 82.1554874
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,226,447.563 : E - 398,810.671

NINEMILE

Office of

JAN 20 2015

GAS CREEK

54

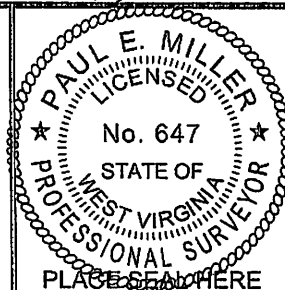
HAGER FK

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

FILE NO. 805461WO.DGN  
DRAWING NO. 5461 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 12, 2014  
OPERATOR'S WELL NO. 805461  
API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1118' WATER SHED NINEMILE CREEK OF GUYAN RIVER

DISTRICT LAUREL HILL COUNTY LINCOLN  
QUADRANGLE BRANCHALAND, WV 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND ACREAGE -  
OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA, L.L.C. LEASE ACREAGE \_\_\_\_\_

LEASE NO. \_\_\_\_\_ FEE LAND (GAS) \_\_\_\_\_

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

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_

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

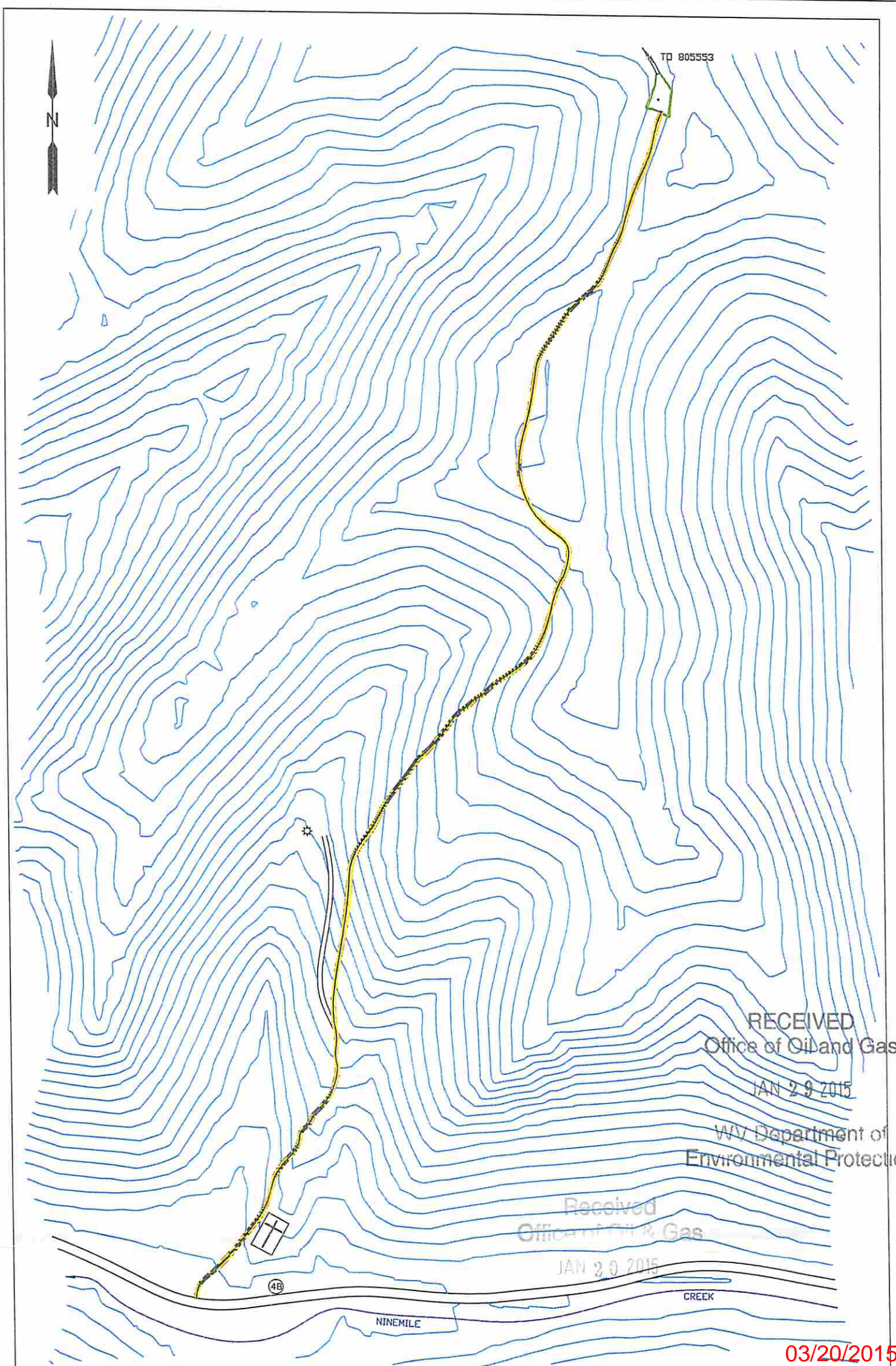
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLISPIE  
ADDRESS PO BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS PO BOX 6070 CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME

PERMIT

03/20/2015

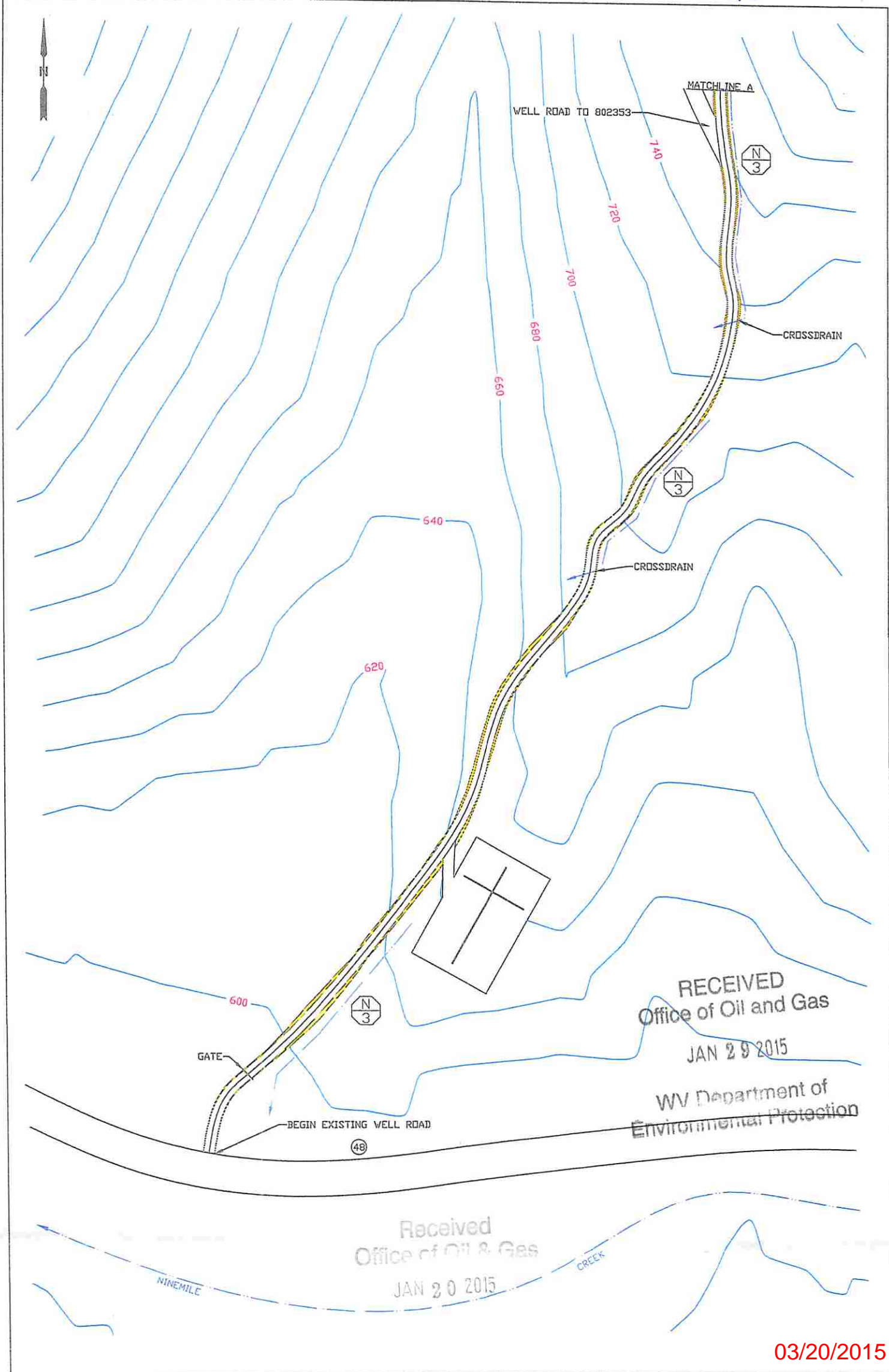


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DISTURBED AREAS		LEGEND		SITE PLAN	
EXISTING WELL PAD	0.54 AC.		STREAM	CHESAPEAKE APPALACHIA, L.L.C. <i>PH</i>	
EXISTING ACCESS ROAD	0.16 AC.		PROPERTY LINE	PROPOSED WORKOVER OF WELL 805461	
ADDITIONAL CLEARING			SLOPE AREA	LAUREL HILL DISTRICT, LINCOLN COUNTY	
			WETLAND	BRANCHLAND QUAD, WV 7.5'	
TOTAL DISTURBED AREA	0.70 AC		BUFFER AREA	JUNE 17, 2014	
				TRUE LINE SURVEYING	
				6211 FAIRVIEW DR.	
				HUNTINGTON, WV 25705	
				PAGE 1 OF 1	



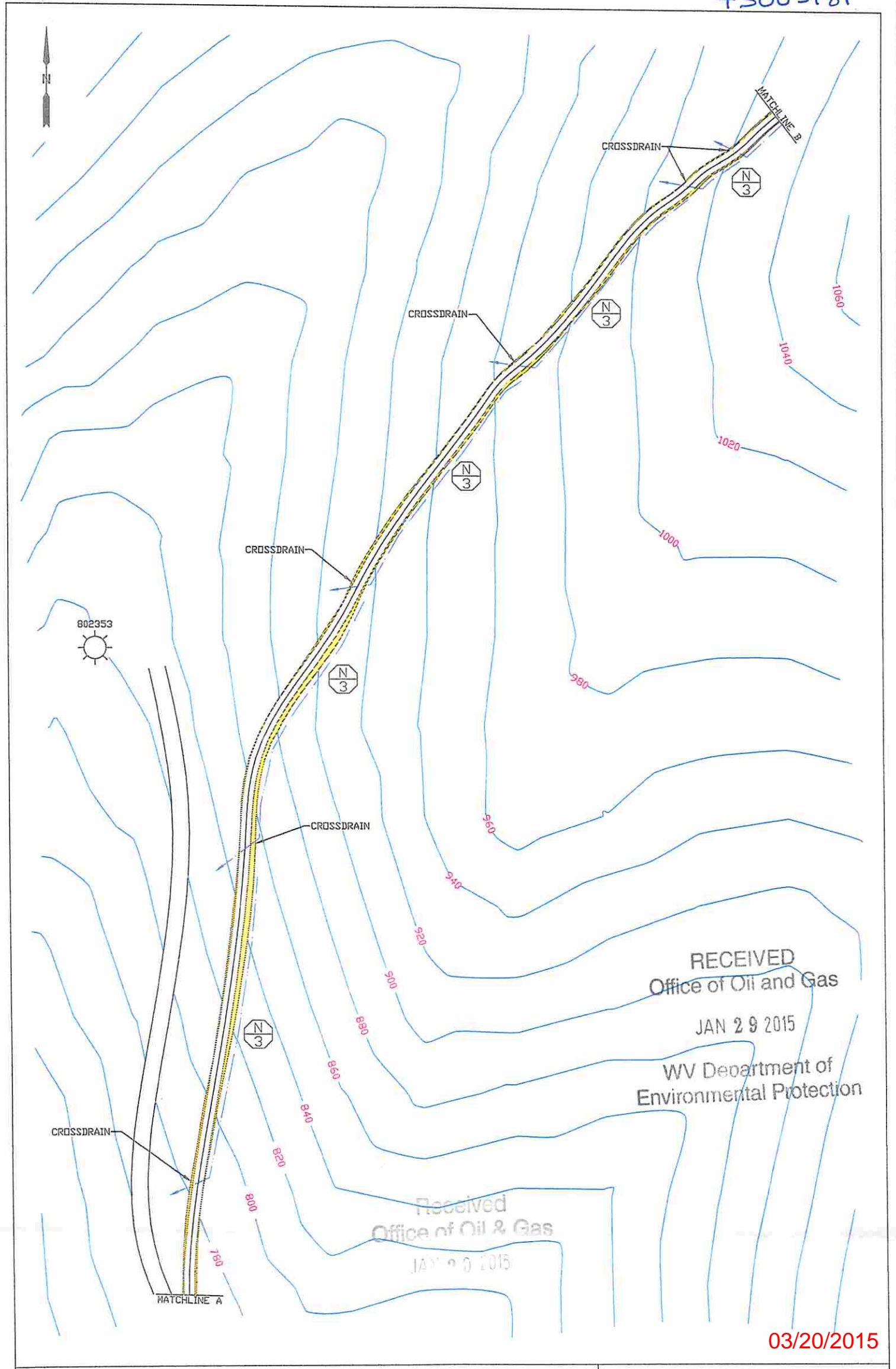
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LEGEND		EROSION AND SEDIMENT CONTROL PLAN	
	PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXABLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES		STREAM
	LEVEL SPREADER		PROPERTY LINE
	DIVERSION DITCH		SLOPE AREA
	BERM OUTLET		WETLAND
			24' COMPOST FILTER SOCK AS REQUIRED
		CHESAPEAKE APPALACHIA, L.L.C. <i>PA</i>	
		PROPOSED WORKOVER WELL # 805461	
		LAUREL HILL DISTRICT, LINCOLN COUNTY BRANCHLANDL QUAD, WV 7.5'	
		JUNE 9, 2014	
		TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705	
		PAGE 1 OF 4	



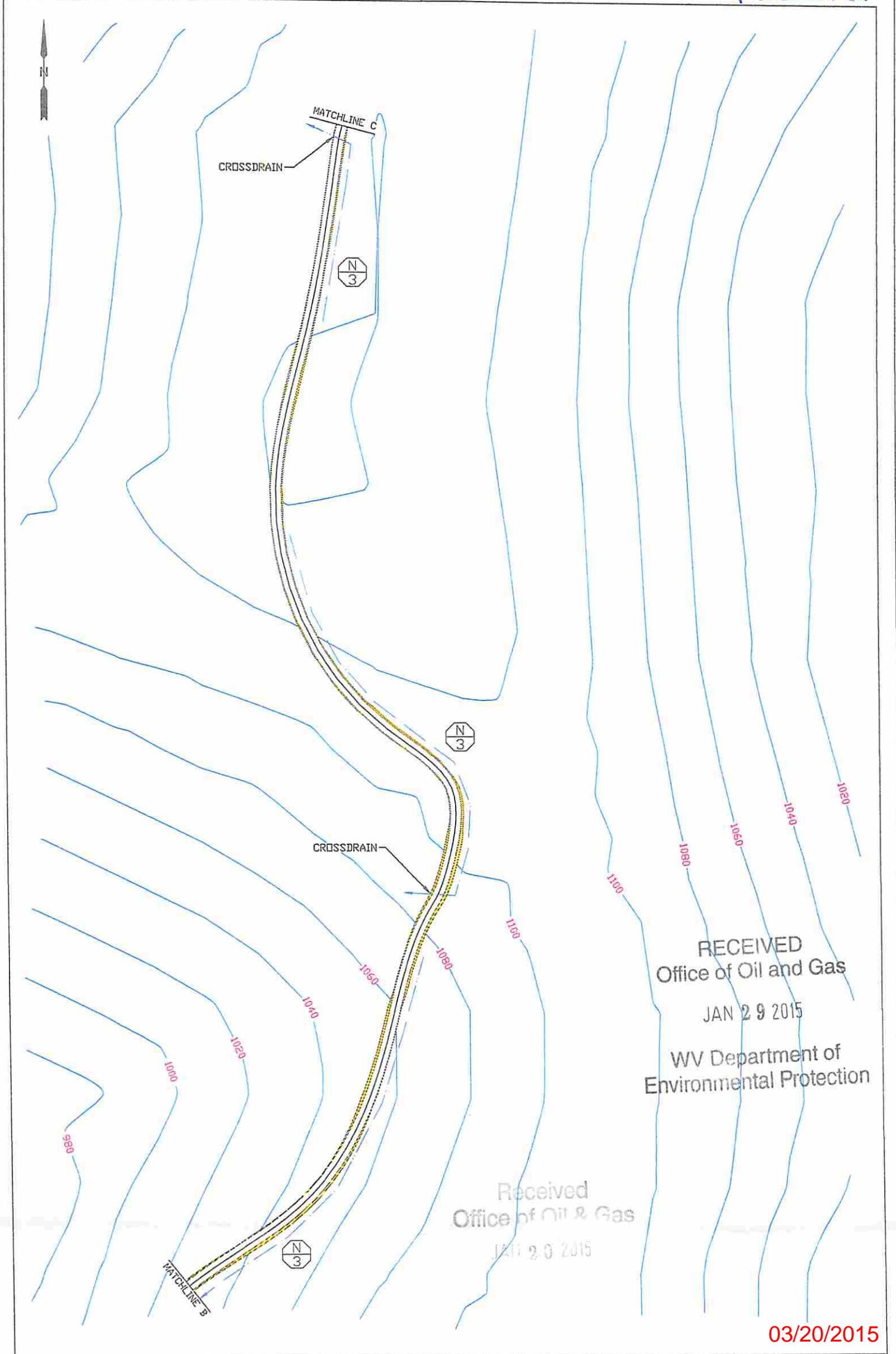


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LEGEND		EROSION AND SEDIMENT CONTROL PLAN	
	PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXIBLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES		STREAM
	LEVEL SPREADER		PROPERTY LINE
	DIVERSION DITCH		SLOPE AREA
	BERM OUTLET		WETLAND
			24" COMPOST FILTER SOCK AS REQUIRED
		CHESAPEAKE APPALACHIA, L.L.C. <i>PHH</i> PROPOSED WORKOVER OF WELL # 805461 LAUREL HILL DISTRICT, LINCOLN COUNTY BRANCHLAND QUAD, WV 7.5'	
		JUNE 9, 2014	
		TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705	
		PAGE <u>2</u> OF <u>4</u>	



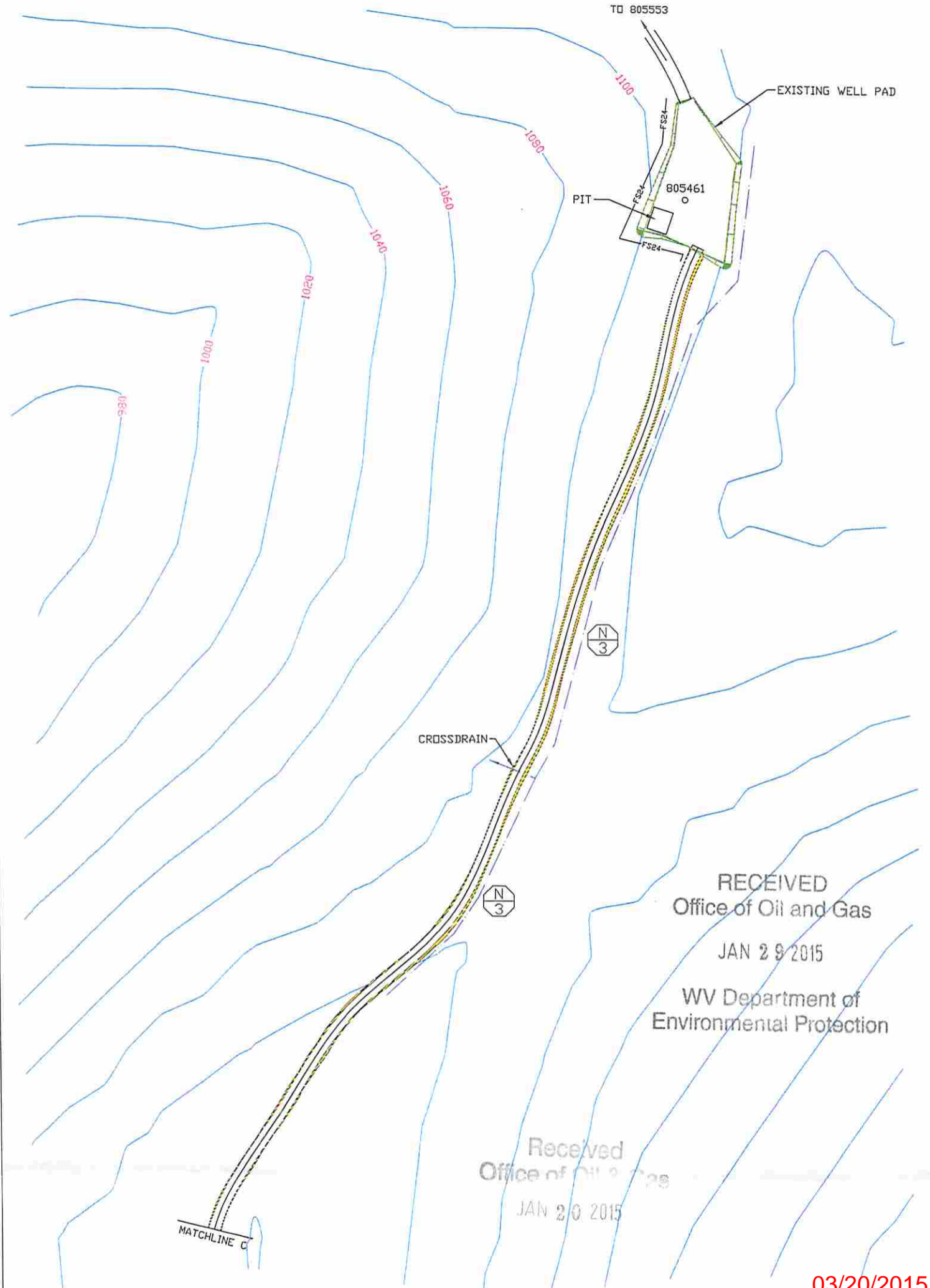
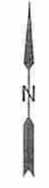
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LEGEND		EROSION AND SEDIMENT CONTROL PLAN	
	PROVIDE FLEXTERRA HIGH PERFORMNCE FLEXABLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES		STREAM
	LEVEL SPREADER		PROPERTY LINE
	DIVERSION DITCH		SLOPE AREA
	BERM OUTLET		WETLAND
			24" COMPOST FILTER SOCK AS REQUIRED
		CHESAPEAKE APPALACHIA, L.L.C. <i>RVP</i>	
		PROPOSED WORKOVER OF WELL # 805461	
		LAUREL HILL DISTRICT, LINCOLN COUNTY BRANCHLAND QUAD, WV 7.5'	
		JUNE 9, 2014	
		TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705	
		PAGE 3 OF 4	

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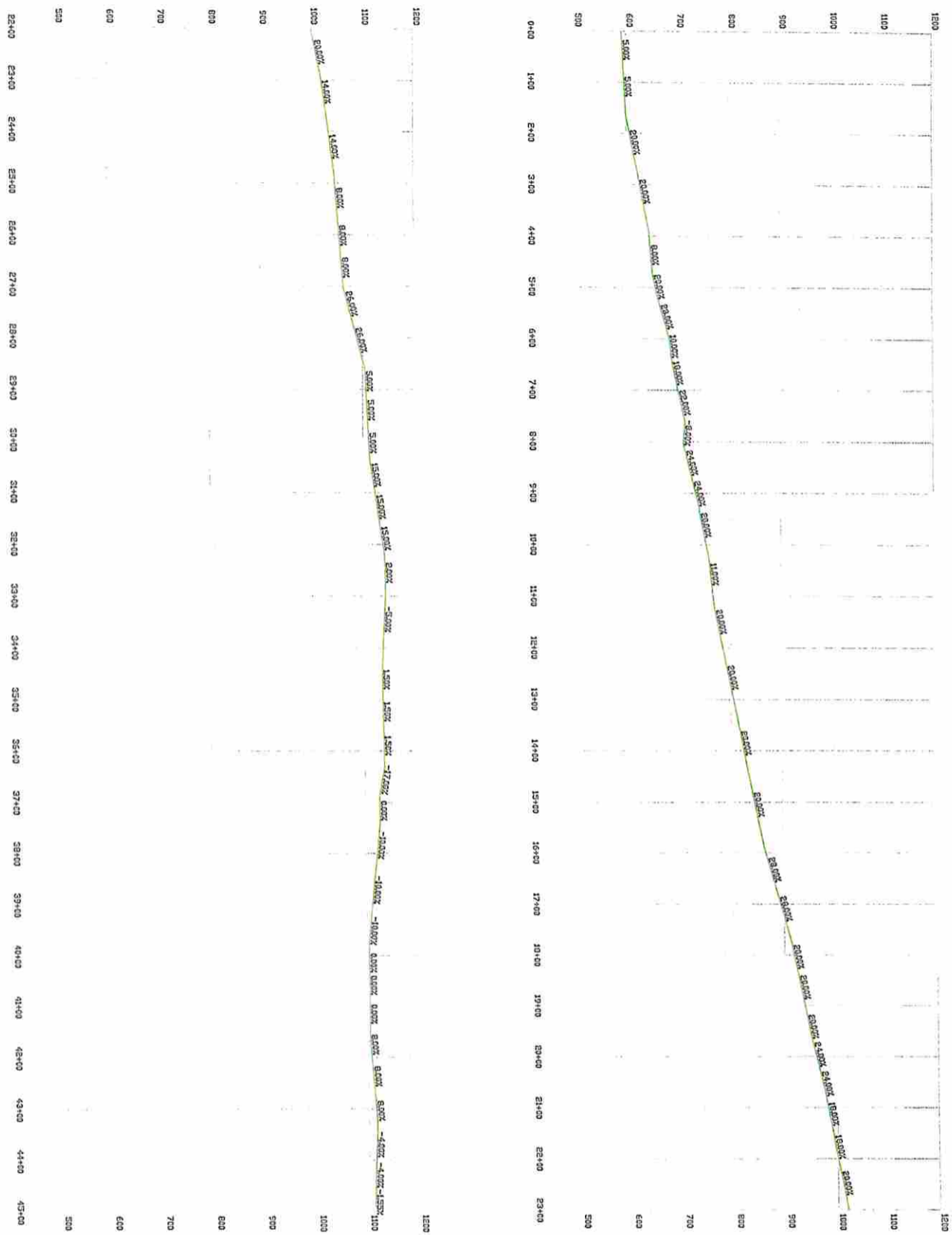


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LEGEND		EROSION AND SEDIMENT CONTROL PLAN
	PROVIDE FLEXTERRA HIGH PERFORMANCE FLEXIBLE GROWTH MEDIUM (HP-FLM) ON CUT AND FILL SLOPES	CHESAPEAKE APPALACHIA, L.L.C. <i>PJA</i>
	LEVEL SPREADER	PROPOSED WORKOVER OF WELL # 805461
	DIVERSION DITCH	LAUREL HILL DISTRICT, LINCOLN COUNTY
	BERM OUTLET	BRANCHLAND QUAD, WV 7.5'
	STREAM	JUNE 17, 2014
	PROPERTY LINE	TRUE LINE SURVEYING
	SLOPE AREA	6211 FAIRVIEW DR.
	WETLAND	HUNTINGTON, WV 25705
	24' COMPOST FILTER SOCK AS REQUIRED	
		PAGE 4 OF 4



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ROAD PROFILE
CHESAPEAKE APPALACHIA, L.L.C.
PROPOSED WORKOVER OF WELL # 805461
LAUREL HILL DISTRICT, LINCOLN COUNTY
BRANCHLAND QUAD, WV 75'
JUNE 9, 2014
TRUE LINE SURVEYING
6211 FAIRVIEW DR.
HUNTINGTON, WV 25705
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