



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

March 17, 2015

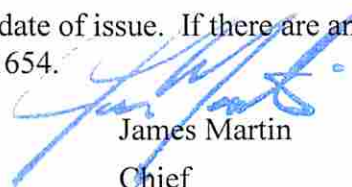
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301863, 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: 2403
Farm Name: ROBERTS, C.
API Well Number: 47-4301863
Permit Type: Plugging
Date Issued: 03/17/2015

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

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

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

1) Date: 2/9/2015
2) Operator's Well No. 802403 P&A
3) API Well No. 47-043-01863

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 659' Watershed Middle Fork of Mud River
 District Carroll County Lincoln Quadrangle Hamlin, 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

2-27-15


Received

FEB 25 2015

03/20/2015

802403 P&A PROCEDURE

NOTE: 8 ¼" may have been pulled

- 1) Prepare road and location, MIRU service rig
- 2) RIH with tools to check TD approximately at 2090'
- 3) Attempt to pull 3" and packer
 - A) If successful:
 - a) Run W.S. to 2090', spot gel, pull W.S. to 2060'
 - b) Spot 100' cement plug 2060'-1960'
 - c) Proceed to step 4
 - B) If unsuccessful:
 - a) Run W.S. to 2090', spot gel
 - b) Spot 130' cement plug 2090'-1960', pull W.S.
 - c) Cut 3" at free-point (approximately 1650') and pull
 - d) Proceed to step 4
- 4) Pull or run W.S. to 1650', spot gel
- 5) Spot 100' cement plug 1650'-1550', pull W.S.
- 6) RIH with tools to check top of plug (If TOC is below 1590' then reset plug)
- 7) Rip or shot holes approximately at 1520', 1495', 1345', 1320'
- 8) Run W.S. to 1520', spot gel
- 9) Spot 100' cement plug 1520'-1420', pull W.S. to 1345'
- 10) Spot 100' cement plug 1345'-1245', pull W.S.
- 11) Cut 6 5/8" at free-point (approximately 820') and pull
- 12) Run W.S. to 820', spot gel
- 13) Spot 150' cement plug 820'-670', pull W.S. to 470'
- 14) Spot 100' cement plug 470'-370', pull W.S.
- 15) Attempt to pull 8 ¼" if present
 - A) If successful or 8 ¼" is not present:
 - a) Run W.S. to 325', spot gel
 - b) Spot 100' cement plug 325'-225'
 - c) Proceed to step 16
 - B) If unsuccessful:
 - a) Run W.S. to 360', if possible
 - b) Spot 100' cement plug 360'-260', pull W.S.
 - c) Cut 8 ¼" at free-point (approximately 195') and pull
 - d) Proceed to step 16
- 16) Run or pull W.S. to 190'
- 17) Spot 190' cement plug 190'-surface 200-surface 
- 18) Pull W.S. and top off with cement
- 19) Erect monument and reclaim as prescribed by law

Received

FEB 25 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

03/20/2015

Serial Well No. **403**

Lease No.

Map Square **33-55**

Paragon Print 500 42047

Drilling RECORD OF WELL No. 403 on the			CASING AND TUBING			TEST BEFORE SHOT		
Catherine Roberts Farm of Acres			Size	Used in Drilling	Left in Well	10 of Water in 2 inc		
in Carroll District			16	0		10ths of Merc. in inc		
Lincoln County			13	0		10ths Volume 150,720 Cu. ft		
Branchland Field, State of W. Va.			10	36'6"	36'6"	TEST AFTER SHOT		
Rig Commenced	July 27, 1925	192	8 1/4	307'2"	258'	10 of Water in 5 inc		
Rig Completed	August 8, 1925	192	6 5/8	1609'10"	1609'10"	10ths of Merc. in inc		
Drilling Commenced	August 10, 1925	192	5 3-16	0		10ths Volume 151,632 Cu. ft		
Drilling Completed	September 12, 1925	192	4 7/8	0		Rock pressure 300		
Drilling to cost	per foot		4	0		Date Shot 9-12-1925		
Contractor is:	Our own tools.		3	2117'1"	2117'1"	Size of Torpedo 30 ct.		
Address:			2	0		Oil Flowed 0 bbls. 1st 24 hrs		
Driller's Names			SHUT IN			Oil Pumped 0 bbls. 1st 24 hrs		
Abe Brookover			Date	Sept. 19, 1925		Well abandoned and		
Ben Pauley			in	5 Tubing or Casing		Plugged 19		
R. L. Jaynes, Foreman.			Size of Packer	4-5/8"x3"x10"		Kind of Packer 2 3/4" anchor		
			Kind of Packer	2 3/4" anchor		1st Perf. Set on bottom		
			1st Perf. Set	on bottom		2nd Perf. Set 46' from bottom		

DRILLER'S RECORD

Formation	Top	Bottom	Thickness	Remarks
Surface	0	36	36	Tubing packer set at 355'6" from bottom.
Slate	36	100	64	
Sand	100	130	30	
Slate	130	150	20	6-5/8"x3 1/4"x10" bottom hole packer set at 1598' steel line measurement
Sand	150	160	10	
Coal	160	164	4	
Slate	164	183	19	when casing set on bottom.
Sand	183	210	27	
Slate	210	232	22	Berea pay, 2040 to 2050 ft.
Sand	232	325	93	Gauged when Berea was first drilled.
Slate	325	340	15	
Sand	340	415	75	14/10 Water in 2" but blew down to 10/10 water in 2" before shooting.
Coal	415	419	4	
Slate	419	550	131	
Sand	550	572	22	Steel line run on top of Big Lime.
Slate and shells	572	675	103	
Sand	675	720	45	Small show of oil 2056-2058 ft.
Slate and shells	720	820	100	
Salt Sand	820	920	100	
Slate	920	935	15	
Sand	935	985	50	
Slate	985	992	7	
Lime	992	1005	13	
Slate	1005	1025	20	
Lime	1025	1033	8	
Slate	1033	1040	7	
Sand	1040	1150	110	
Slate	1150	1165	15	
Lime	1165	1180	15	
Sand	1180	1210	30	
Slate	1210	1214	4	
Sand	1214	1295	81	
Slate	1295	1300	5	
Maxton Sand	1300	1315	15	
Little Lime	1315	1343	28	
Pencil Cave	1343	1345	2	
Big Lime	1345	1535	190	
Red Rock	1535	1541	6	
Big Injun	1541	1566	25	

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 Office of Oil and Gas

FEB 12 2015

WV Department of

03/20/2015

B. Stant

4301863P

WW4-A
Revised
2/01

1) Date: 2/9/2015
2) Operator's Well No. 802403 P&A
3) API Well No. 47-043-01863

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 Virginia Gladys Roberts
Address P.O. Box 154
West Hamlin, WV 25571

(b) Name See Attached List for Access
Address Surface Owners

(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 See Attached List for Coal Owners
Address _____

Name _____
Address _____

Coal Lessee with Declaration
(c) Name None
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: Manager - Operations, Appalachia South
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

Subscribed and sworn before me this 9th day of February the year of 2015
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2018
Form WW-9

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Office of Oil and Gas
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WV Department of Environmental Protection 03/20/2015

Well 802403 P&A
API 47-043-01863

Access Surface Owners

Barbara Carper ✓
Rt 1 Box 51
Hamlin, WV 25523

Gregory A. Roberts ✓
1623 Ardoyne Avenue
Cleveland, OH 44109

C&R Equipment Co., Inc. ✓
168 Sug Drive
Hamlin, WV 25523
Gregory Gue

Gregory Gue & ✓
Joseph Gregory Gue
5112 Kingman Avenue
Portage, IN 46368

Gregary Allen Gue & ✓
Joseph Michael Gue
10503 E. 1680 North Road
Oakewood, IL 61858

Virginia Gladys Roberts ✓
P.o. Box 154
West Hamlin, WV 25571

William Grady Graham ✓
6253 Straight Fork Road
Sweetland, WV 25523

Well 802431 P&A
API 47-043-01863

Coal Owners

Ricky L. Adkins &
Glenneth Plumley
253 Scary Creek Road
Hamlin, WV 25523 ✓

Yvonne King
Hart Okel Iseman Estate
113 Center Street
Glenville, WV 26351 ✓

Martin Naomi Herman &
Walter Graham Jr.
6188 Straight Fork
Hamlin, WV 25523 ✓

Helen Eloise Richardson
2821 Gulf City Road #74
Ruskin, FL 33570 ✓

Bera Miller
5956 Straight Fork
Hamlin, WV 25523 ✓

C O Harrison Properties
444 Richardson Road
Creston, WV 26141 ✓

Roy A. Campbell
124 Summit Ridge
Hurricane, WV 25526 ✓

Aquilonia Land Co.
P.O. Box 26
Millwood, WV 25262 ✓

H3 LLC
1477 Johnson Creek Road
Milton, WV 25541 ✓

Jeff Tignor
8711 Aarons Fork Road
Elkview, WV 25071 ✓

Laura Chapman
8711 Aarons Fork Road
Elkview, WV 25071 ✓

Lena Barrett &
Glasco Barrett, Jr.
8027 Court Street
Hamlin, WV 25523 ✓

Sadie F. Roberts
62 Middle Creek
Hamlin, WV 25523 ✓

Harry Roberts Estate
Lawrence Roberts
14934 Redwood Bend Trail
Houston, TX 77062 ✓

Trio Petroleum Corp &
Waco Oil & Gas Inc.
1297 N Lewis Street
Glenville, WV 26331 ✓

4301863A

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Total Postage & Fees	\$ 7.40	02/11/2015

Sent To: **802403 P&A (surface)**
 Virginia Gladys Roberts
 P.O. Box 154
 West Hamlin, WV 25571

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Total Postage & Fees	\$ 7.40	02/11/2015

Sent To: **802403 P&A (access surface)**
 Barbara Carper
 Rt 1 Box 51
 Hamlin, WV 25523

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Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 7.40	02/11/2015

Sent To: **802403 P&A (access surface)**
 Gregory A. Roberts
 1623 Ardoyne Avenue
 Cleveland, OH 44109

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Total Postage & Fees	\$ 7.40	02/11/2015

Sent To: **802403 P&A (access surface)**
 C&R Equipment Co., Inc.
 168 Sug Drive
 Hamlin, WV 25523

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Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 7.40	02/11/2015

Sent To: **802403 P&A (surface access)**
 Gregory Gue &
 Joseph Gregory Gue
 5112 Kingman Avenue
 Portage, IN 46368

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Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 7.40	02/11/2015

Sent To: **802403 P&A (surface access)**
 Gregory Allen Gue &
 Joseph Michael Gue
 10503 E 1680 North Road
 Oakwood, IL 61858

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Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.40	02/11/2015

Sent To: **802403 P&A (coal)**
Ricky L. Adkins & Glenneth Plumley
253 Scary Creek Road
Hamlin, WV 25523

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Total Postage & Fees	\$7.40	02/11/2015

Sent To: **802403 P&A (surface access)**
William Grady Graham
6253 Straight Fork Road
Sweetland, WV 25523

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Total Postage & Fees	\$7.40	02/11/2015

Sent To: **802403 P&A (coal)**
Yvonne King
Hart Okel Iseman Estate
113 Center Street
Glenville, WV 26351

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Sent To: **802403 P&A (coal)**
Martin Naomi Herman & Walter Graham Jr.
6188 Straight Fork
Hamlin, WV 25523

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Total Postage & Fees	\$7.40	02/11/2015

Sent To: **802403 P&A (coal)**
Lena Barrett & Glasco Barrett, Jr.
8027 Court Street
Hamlin, WV 25523

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Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.40	02/11/2015

Sent To: **802403 P&A (coal)**
Laura Chapman
8711 Aarons Fork Road
Elkview, WV 25071

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Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total	7.40	02/11/2015

802403 P&A (coal)

Sent To: Helen Eloise Richardson
2821 Gulf City Road #74
Ruskin, FL 33570

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Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total	7.40	02/11/2015

802403 P&A (coal)

Sent To: Trio Petroleum Corp &
Waco Oil & Gas Inc.
1297 N Lewis Street
Glenville, WV 26331

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Restricted Delivery Fee (Endorsement Required)	0.00	
Total	7.40	02/11/2015

802403 P&A (coal)

Sent To: Harry Roberts Estate
Lawrence Roberts
14934 Redwood Bend Trail
Houston, TX 77062

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Total	7.40	02/11/2015

802403 P&A (coal)

Sent To: Bera Miller
5956 Straight Fork
Hamlin, WV 25523

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Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.40	02/11/2015

802405 P&A (coal)
 Jeff Tignor
 8711 Aarons Fork Road
 Elkview, WV 25071

PS Form 3824, PSN 7530-01-000-9001 Instructions

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MILTON WV 25541

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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	
Total Postage & Fees	\$7.40	02/11/2015

802405 P&A (coal)
 H3 LLC
 1477 Johns Creek Road
 Milton, WV 25541

PS Form 3824, PSN 7530-01-000-9001 See Reverse for Instructions

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HAMLIN WV 25523

OFFICIAL USE

Postage	\$ 1.40	0523
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.40	02/11/2015

802403 P&A (coal)
 Sadie F. Roberts
 62 Middle Creek
 Hamlin, WV 25523

PS Form 3824, PSN 7530-01-000-9001 See Reverse for Instructions

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CRESTON WV 26141

OFFICIAL USE

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Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.40	02/11/2015

802403 P&A (coal)
 C O Harrison Properties
 444 Richardson Road
 Creston, WV 26141

PS Form 3824, PSN 7530-01-000-9001 Instructions

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HURRICANE WV 25526

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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	
Total Postage & Fees	\$7.40	02/11/2015

802403 P&A (coal)
 Roy A. Campbell
 124 Summit Ridge
 Hurricane, WV 25526

PS Form 3824, PSN 7530-01-000-9001 See Reverse for Instructions

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MILLWOOD WV 25262

OFFICIAL USE

Postage	\$ 1.40	0523
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.40	02/11/2015

802403 P&A (coal)
 Aquilonia land Co.
 P.O. Box 26
 Millwood, WV 25262

PS Form 3824, PSN 7530-01-000-9001 See Reverse for Instructions

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 Office of Oil and Gas
 FEB 12 2015

CK 5244718
 \$ 100.00

WV Department of
 Environmental Protection

03/20/2015

4301863P

Rev. 02/01

API Number 47-043-01863
Operator's Well No. 802403 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 Middle Fork of Mud River Quadrangle Hamlin, WV 7.5'

Elevation 659' County Lincoln District Carroll

Description of anticipated Pit Waste: Plugging Returns/Cement

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

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 *Dave Gocke*

Company Official (Typed Name) Dave Gocke

Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 9th day of February, 2015

Phyllis A. Copley

Notary Public.

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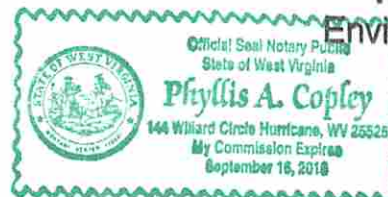
FEB 12 2015

My Commission Expires September 16, 2018

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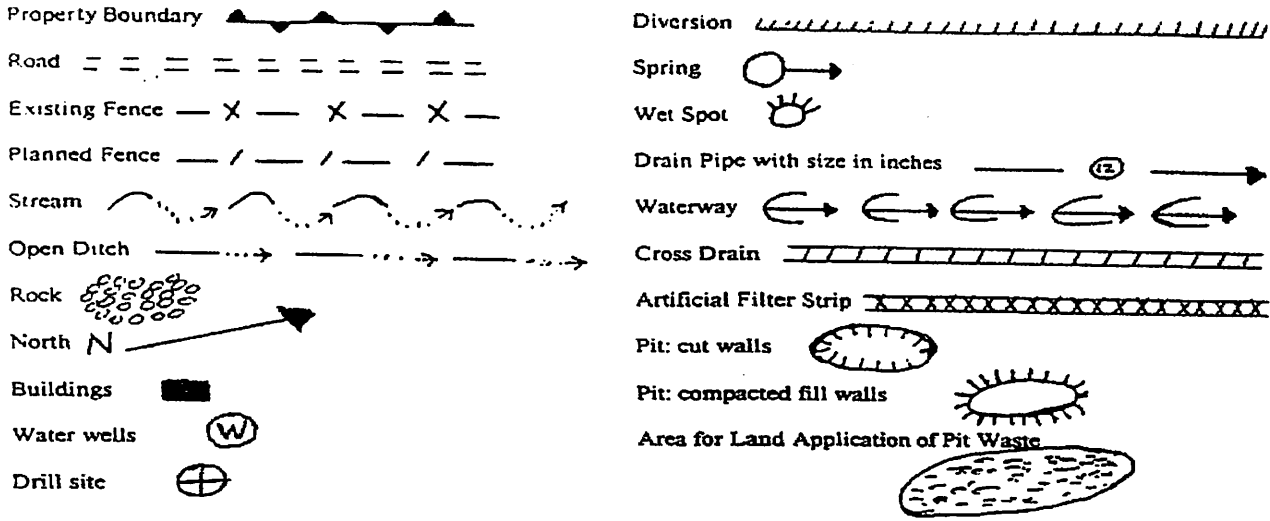
WV Department of
Environmental Protection

03/20/2015

Attachment #1

API #: 47-043-01863
 Operator's Well No. 802403 P&A

LEGEND



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
CHESAPEAKE CONTRACTOR'S MIX	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: 2-23-15

Field Reviewed? () Yes () No

Received

FEB 25 2015

Office of Oil and Gas
 WV Dept. of Environmental Protection

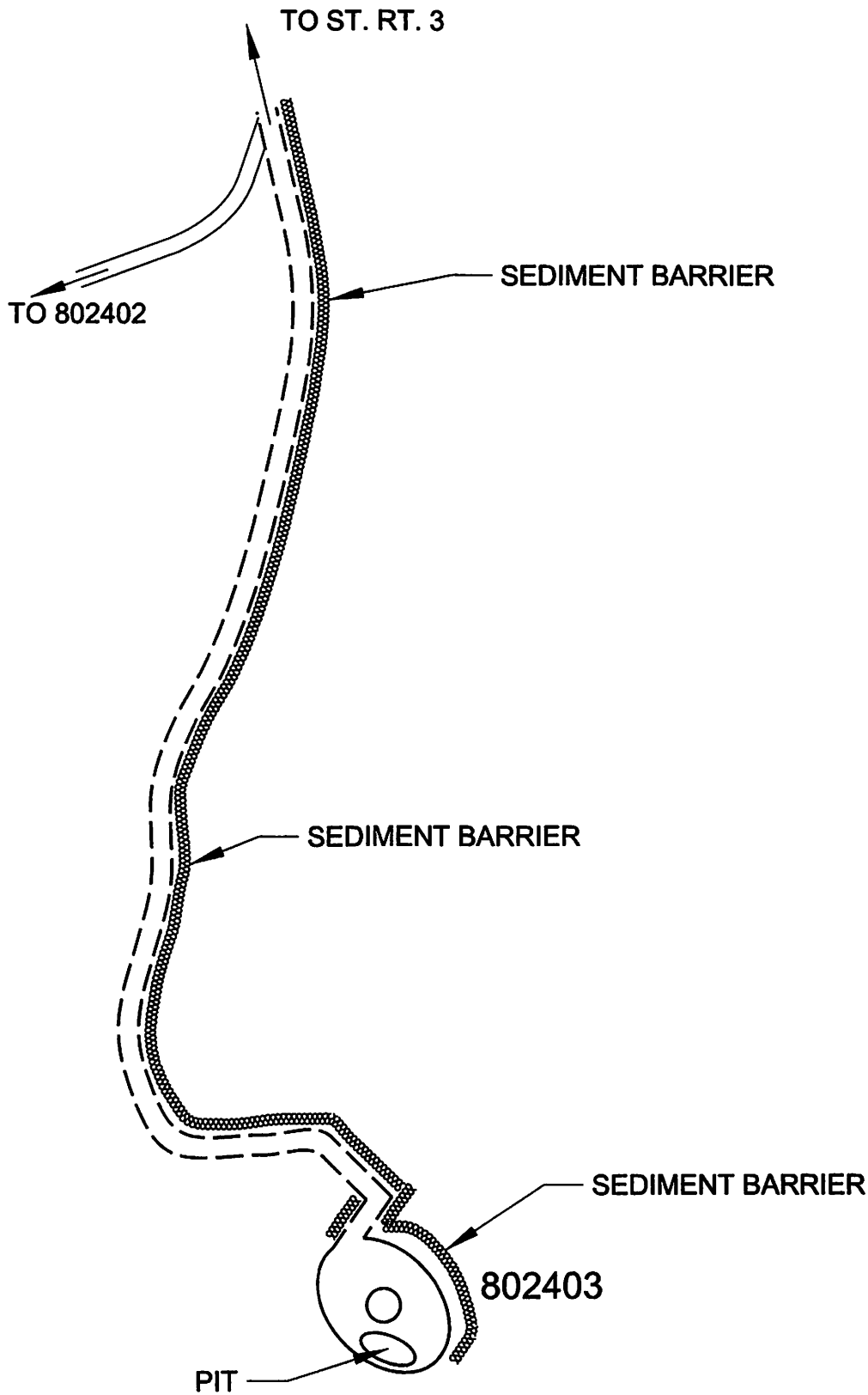
03/20/2015

4301463A

CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM WELL LOCATION 802403

API 47-043-01863



GENERAL NOTES

This drawing is a schematic representation of the well site and access road. Proposed structures such as well site, drilling pit, roadways, culverts, sediment barriers, etc. are shown in approximate pre-planning configurations.

All culvert pipes will be a minimum of 15 inches in diameter. All culvert pipes installed will be accompanied by an entrance sump with dimensions no less than 3 feet (width) x 3 feet (length) x 4 feet (deep). Culverts will be installed at an angle to ensure proper flow. The out fall of culverts will be protected from erosion and sedimentation using large rocks or other sediment controls deemed necessary in the prevention of erosion and sedimentation. Storm water from the ditches to the culverts will be directed to stable natural vegetative areas. Where culverts are not practical, operator will have other sediment control in place to minimize erosion sedimentation.

Cross drains, broad based dips, water bars, and diversion ditches, will be employed during the construction phase. These erosion and sediment control structures will be used to control erosion and sedimentation during the construction phase, where applicable, and in areas that will allow. These structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1.

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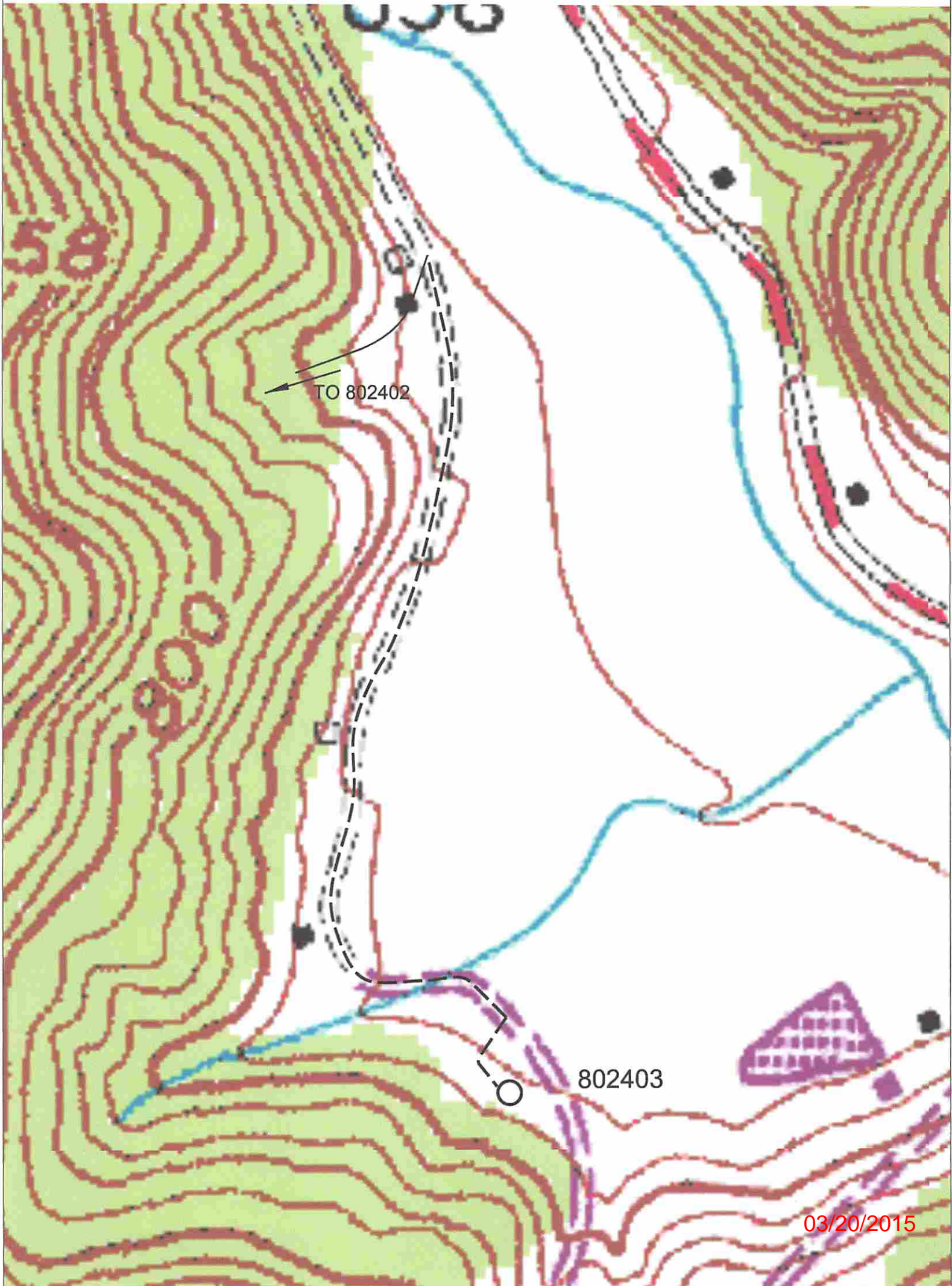
CHESAPEAKE ENERGY CORPORATION - EASTERN DIVISION
P.O. BOX 579 - 8165 COURT AVENUE - HAMLIN, WV 25523
304 824-5141 - FAX 304 824-2247

4301863P

CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND
WELL LOCATION 802403

API 47-043-01863



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304 824-5141 - FAX 304 824-2247

WV Department of
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2,923'

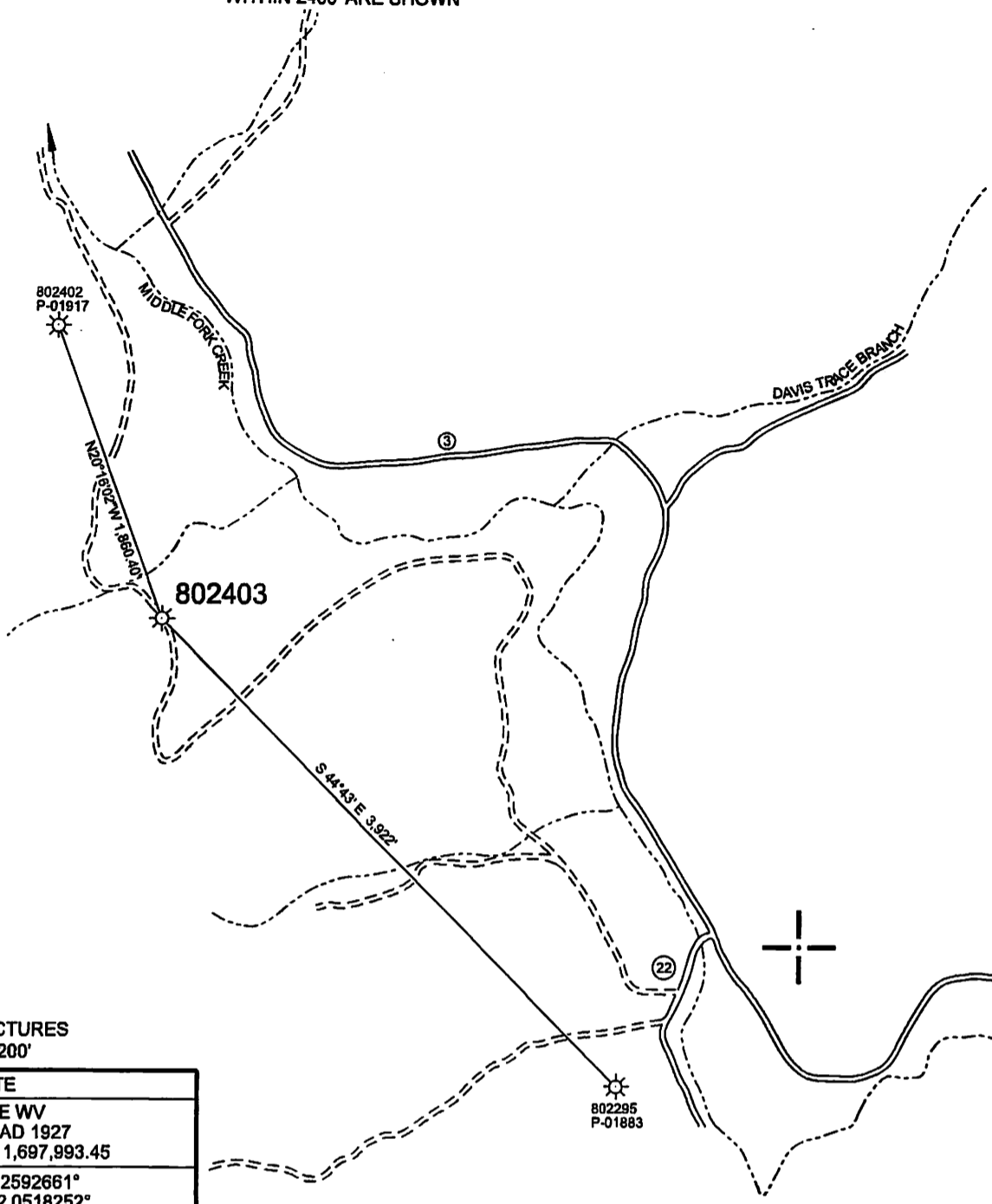
NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 38°17'30"

LONGITUDE 82°02'30"

11,787'

NORTH



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

WELL SITE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 460,246.60 : E - 1,697,993.45	
LATITUDE: (N) 38.2592661° LONGITUDE: (W) 82.0518252°	
UTM NAD83 17 - 84W TO 78W, METERS N - 4,235,114.945 : E - 407,990.007	

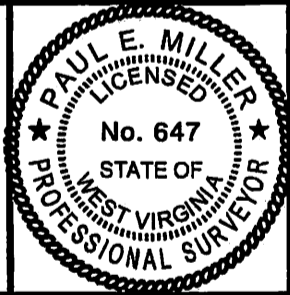
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO.	802403.DGN
DRAWING NO.	802403 P&A
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 JANUARY 8, 20 15
OPERATOR'S WELL NO. 802403
API WELL NO.

47 043 01863 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 659' WATER SHED _____ MIDDLE FORK OF MUD RIVER
DISTRICT _____ CARROLL COUNTY _____ LINCOLN
QUADRANGLE _____ HAMLIN, WV 7.5'

SURFACE OWNER _____ VIRGINIA GLADYS ROBERTS _____ ACREAGE _____
OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE _____
LEASE NO. 1024592

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

PLUG AND ABANDON X CLEAN OUT AND REPLUG ___
TARGET FORMATION _____ ESTIMATED DEPTH _____
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT JESSICA GREATHOUSE
ADDRESS P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

COUNTY NAME

PERMIT

03/20/2015