



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 16, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-7900879, 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: 4189
Farm Name: WISEMAN, ADDISON
API Well Number: 47- 7900879
Permit Type: Plugging
Date Issued: 03/16/2015

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

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.

1) Date: 1/29/2015
2) Operator's Well No. 804189 P&A
3) API Well No. 47-079-00879

CK #
5230503
100⁰⁰

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 927' Watershed Tackett Creek of Coal river
 District Curry County Putnam Quadrangle Scott Depot, 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 Jamie Stevens Name Chesapeake Appalachia, L.L.C.
 Address 105 Kentuck Road Address P.O. Box 18496
Kenna, WV 25248 304-206-7775 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

Jamie Stevens

Date

Feb 9th, 2015

Received
Office of Oil & Gas
FEB 13 2015

Elev: 927'

API Number: 47-079-00879 P

804189 P&A PROCEDURE

*Chesapeake
Appals check
plugging*

NOTE: 5 1/2" may have been pulled

- 1) Prepare road and location, MIRU service rig
- 2) Run in hole with tools to check TD at approximately 2400'
- 3) Attempt to pull 3" and packer
 - A) If successful
 - a) Run W.S. to 2400', spot gel, pull W.S. to 2370'
 - b) Spot 100' cement plug 2370'-2270', pull W.S.
 - c) Proceed to step 4
 - B) If unsuccessful
 - a) Run W.S. to 2400', spot gel
 - b) Spot 100' cement plug 2400'-2300', pull W.S.
 - c) Cut 3" at free-point (approximately 2175') and pull
 - d) Run W.S. to 2175', spot gel
 - e) Spot 100' cement plug 2175'-2075', pull W.S.
 - f) Proceed to step 4
- 4) Attempt to pull 5 3/16" and packer
 - A) If successful
 - a) Run W.S. to 1920', spot gel
 - b) Spot 100' cement plug 1920'-1820', pull W.S. to 1740'
 - c) Proceed to step 5
 - B) If unsuccessful
 - a) Run W.S. to 2025', spot gel
 - b) Spot 100' cement plug 2025'-1925', pull W.S.
 - c) Cut 5 3/16" at free-point (approximately 1880') and pull
 - d) Run W.S. to 1880', spot gel
 - e) Spot 100' cement plug 1880'-1780', pull W.S. to 1740'
 - f) Proceed to step 5
- 5) Spot 100' cement plug 1740'-1640', pull W.S.
- 6) Run in hole with tools to check TOC (If top of cement is below 1675', then re-set plug)
- 7) Cut 6 5/8" at free-point (approximately 1235') and pull
- 8) Run W.S. to 1235', spot gel
- 9) Spot 100' cement plug 1235'-1135', pull W.S. to 950'
- 10) Spot 150' cement plug at 950'-800', pull W.S. to 700'
- 11) Spot 100' cement plug 700'-600', pull W.S. to 400'
- 12) Spot 100' cement plug 400'-300', pull W.S. to 100'
- 13) Spot 100' cement plug 100' – surface
- 14) Pull W.S. and top of with cement
- 15) Set monument and reclaim as prescribed by law

Received
Office of Oil & Gas
FEB 13 2015

*OK
2/11/15*

Well 804184

UNITED FUEL GAS COMPANY

079-879

P

SERIAL WELL NO. 4189

LEASE NO. 30307

MAP SQUARE 46-61

RECORD OF WELL No. 1 Addison Wisman Farm of 25 Acres in Curry District Putnam County Field, State of		CASING AND TUBING			TEST BEFORE SHOT	
		SIZE	USED IN DRILLING	LEFT IN WELL	9 of Water in 3 inch 10ths. of Merc. in inch 10ths. Volume 321,840 Cu. ft.	
		16			TEST AFTER SHOT	
		13			of Water in inch 10ths. of Merc. in inch 10ths. Volume Cu. ft.	
		10	30	30	Rock Pressure 48 hr. 342#	
Rig Commenced 193 Rig Completed 193 Drilling Commenced April 5, 1929 193 Drilling Completed May 27, 1929 193 Drilling to cost 2.00 per foot Contractor is: Samples Bros. Address: Dunbar, W. Va.		8 1/4	476' 8"		Date Shot Size of Torpedo	
		6 5/8	169' 7"	169' 7"	Oil Flowed bbls. 1st 24 hrs. Oil Pumped bbls. 1st 24 hrs.	
		5 3/16	1968' 3"	1968' 3"	Well abandoned and Plugged 193	
		4 7/8			Kind of Packer Anchor set at 2359	
		4			1st Perf. Set 2400' from to 2423'	
		3		2438' 3"	2nd Perf. Set 2362' from to 2382'	
		2			Elevation 920'	
Driller's Name Purchased from the C.D.N.G.Co. by U.F.G.Co. Jan. 1, 1930.		SHUT IN Date 5-28-1929 3 in Tubing or Casing Size of Packer 3x5-3/16x10" Kind of Packer Anchor set at 2359 1st Perf. Set 2400' from to 2423' 2nd Perf. Set 2362' from to 2382'			DRILLER'S RECORD	

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Coal	660	662	2	Water in 10" hole at 60' 4 barrels per hour.
Coal	835	836 1/2	1 1/2	
Gas Sand	1165	1178	13	
Salt Sand	1235	1265	30	Water Sand at 670', 4 1/2 barrels per hr.
Sand	1290	1610	320	6-5/8" Casing set on a 6-5/8x8"
Maxon Sand	1612	1635	23	Parmaco B.H.Packer set at 1689'.
Little Lime	1637	1658	21	5-3/16" Casing set on a 5-3/16x6-5/8"
Slate	1658	1680	22	Parmaco B.H.Packer set at 1960'.
Big Lime	1680	1877	197	
Slate	1877	1879	2	Gas in B.Lime 1772 - 1774 Test 4/10
Big Injun	1879	1920	41	water in 2" and blew down to 2/10.
Black Lime	1920	1925	5	Show of oil at 1885' to 1890.
Sand Broken	1925	1945	20	" " " " 1915 to 1920.
Black Lime	1945	2175	230	
Slate & Shells	2175	2356	181	Lime shell 2330 to 2345 a good place to set a packer.
Berea Sand	2356	2382	26	
Black Lime	2382	2418	36	Gas in Berea from 2362 to 2376' Test
Shale	2418	2423	5	75/10 water in 2". Steel line measure.
Total Depth		2423		

Received
 Office of Oil & Gas
 FEB 13 2015

WW4-A
Revised
2/01

1) Date: 1/29/2015
2) Operator's Well No. 804189 P&A
3) API Well No. 47-079-00879

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 Sidney Mark Turley
Address 352 MacCorkle Avenue, S.W.
St. Albans, WV 25177

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Jamie Stevens
Address 105 Kentuck Road
Kenna, WV 25248

Telephone 304-206-7775

5) Coal Operator
(a) Name None
Address _____

Coal Owner(s) with Declaration
(b) Name See Attached List
Address for Coal Owners

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: Manager - Operations, Appalachia South
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

Subscribed and sworn before me this 30th day of January 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

FEB 02 2015

WV Department of
Environmental Protection

804189 COAL OWNERS

Shelby Wiseman
1075 MacCorkle Avenue, S.W.
St. Albans, WV 25177 ✓

Ruby Estes ✓
4036 Evertt Drive
Loveland, OH 45140

Mary Deel ✓
204 Beauregard Road
Summerville, SC 29483

Barbara Hodges Cyrus ✓
HC 30 Box 152
Caldwell, WV 24925

Albert Lee Hodges ✓
4992 Beech Fork Road
Lavalette, WV 25535

James A. Hodges ✓
15115 N Western
Edmond, OK 73013

Carol E. Cook ✓
3236 Morning Road
Hurricane, WV 25526

Jack Wayne Hodges ✓
P.o. Box 1336594
Clermont, FL 34713

Shirley Smith ✓
2742 Knox Avenue
St. Albans, WV 25177

Michael A. Wiseman ✓
P.O. Box 1103
St. Albans, WV 25177

Russell E. Hodges ✓
46 Kids Drive
St. Albans, WV 25177

Robert S. Hodges ✓
2754 Poplar Fork Road
Winfield, WV 25213

Myra G. Wiseman ✓
P.O. Box 1103
St. Albans, WV 25177

Jerry Wiseman ✓
134 A Frame Road
Elkview, WV 25071

Mark A Wiseman ✓
P.O. Box 1103
St. Albans, WV 25177

Myrna A. Schneider ✓
P.O. box 1103
St. Albans, WV 25177

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API 47-079-00879 P

Well 804129

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Sent To: **804189 P&A (surface)**
 Sidney Mark Turley
 352 MacCorkle Avenue, SW
 St. Albans, WV 25177

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Sent To: **804189 P&A (coal)**
 Shelby Wiseman
 1075 MacCorkle Avenue, SW
 St. Albans, WV 25177

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Sent To: **804189 P&A (coal)**
 Mary Deel
 204 Beauregard Road
 Summerville, SC 29483

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Sent To: **804189 P&A (coal)**
 Albert Lee Hodges
 4992 Beech Fork Road
 Lavalette, WV 25535

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 Shirley Smith
 2742 Knox Avenue
 St. Albans, WV 25177

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Sent To: **804189 P&A (coal)**
 Carol E. Cook
 3236 Morning Road
 Hurricane, WV 25526

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 Ruby Estes
 4036 Evertt Drive
 Loveland, OH 45140

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Sent To: **804189 P&A (coal)**
 Russell E. Hodges
 46 Kids Drive
 St. Albans, WV 25177

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WV Department of Environmental Protection

API 47-079-00879P

Well 804189

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James A. Hodges
1511 N Western
Edmond, OK 73013

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Barbara Hodges Cyrus
HC 30 Box 152
Caldwell, WV 24925

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Sent To: 804189 P&A (coal)
Myrna A. Schneider
P.O. Box 1103
St. Albans, WV 25177

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Jerry Wiseman
134 A Frame Road
Elkview, WV 25071

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Michael A. Wiseman
P.O. Box 1103
St. Albans, WV 25177

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Clermont, FL 34713

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Mark A. Wiseman
P.O. Box 1103
St. Albans, WV 25177

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Myrna G. Wiseman
P.O. Box 1103
St. Albans, WV 25177

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API 47-079-00879 P

Well 804129

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Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total P...	\$ 7.40	01/30/2015

804189 P&A (coal)

Sent To: Robert S. Hodges
Street & or PO B: 2754 Poplar Fork Road
City, Sta: Winfield, WV 25213

PS Form... See Reverse for Instructions

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79 00879P

Rev. 02/01

API Number 47-079-00879
Operator's Well No. 804189 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 Tacket Creek of Coal River Quadrangle Scott Depot, WV 7.5'
Elevation 927' County Putnam District Curry

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

Subscribed and sworn before me this 30th day of January, 2015.

Phyllis A. Copley Notary Public.

My Commission Expires September 16, 2018

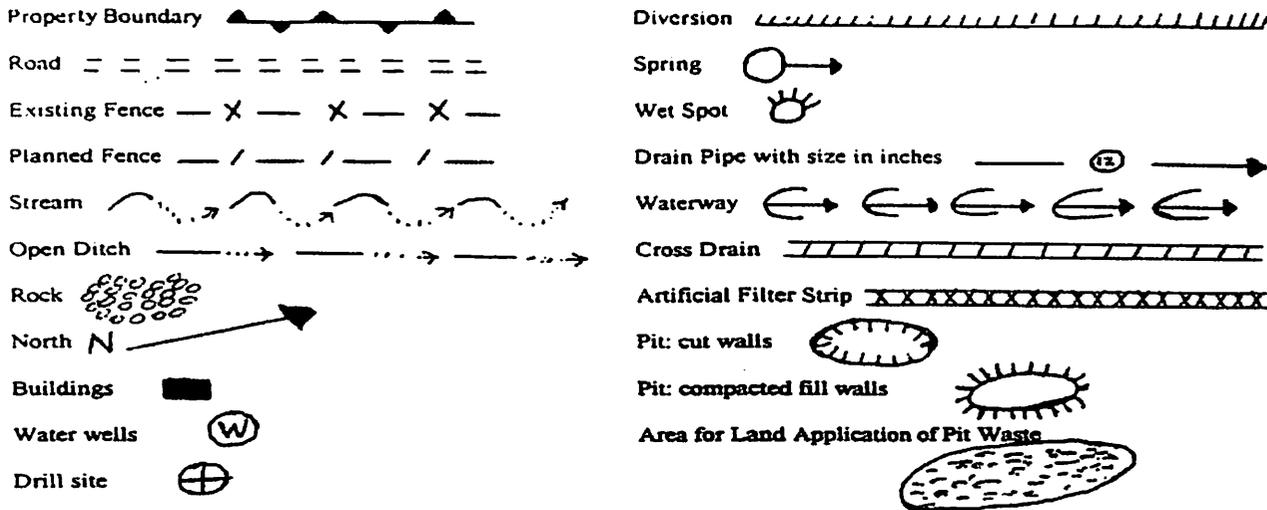
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Attachment #1

API #: 47-079-00879
 Operator's Well No. 804189 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
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: _____

Date: _____

Field Reviewed? () Yes () No

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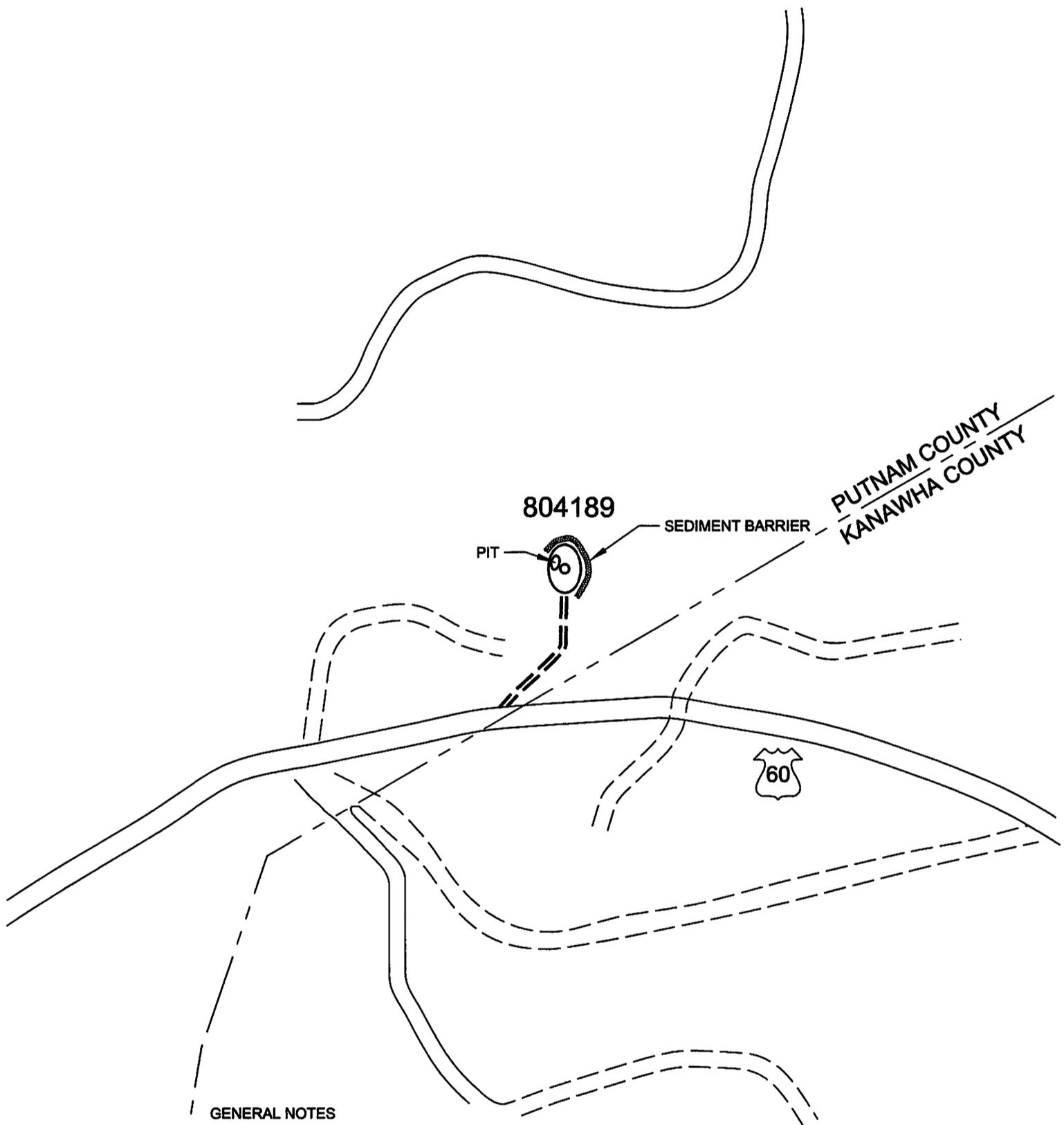
WV Department of
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CHESAPEAKE APPALACHIA, L.L.C.

7900879P

RECLAMATION DIAGRAM WELL LOCATION 804189

API 47-079-00879



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

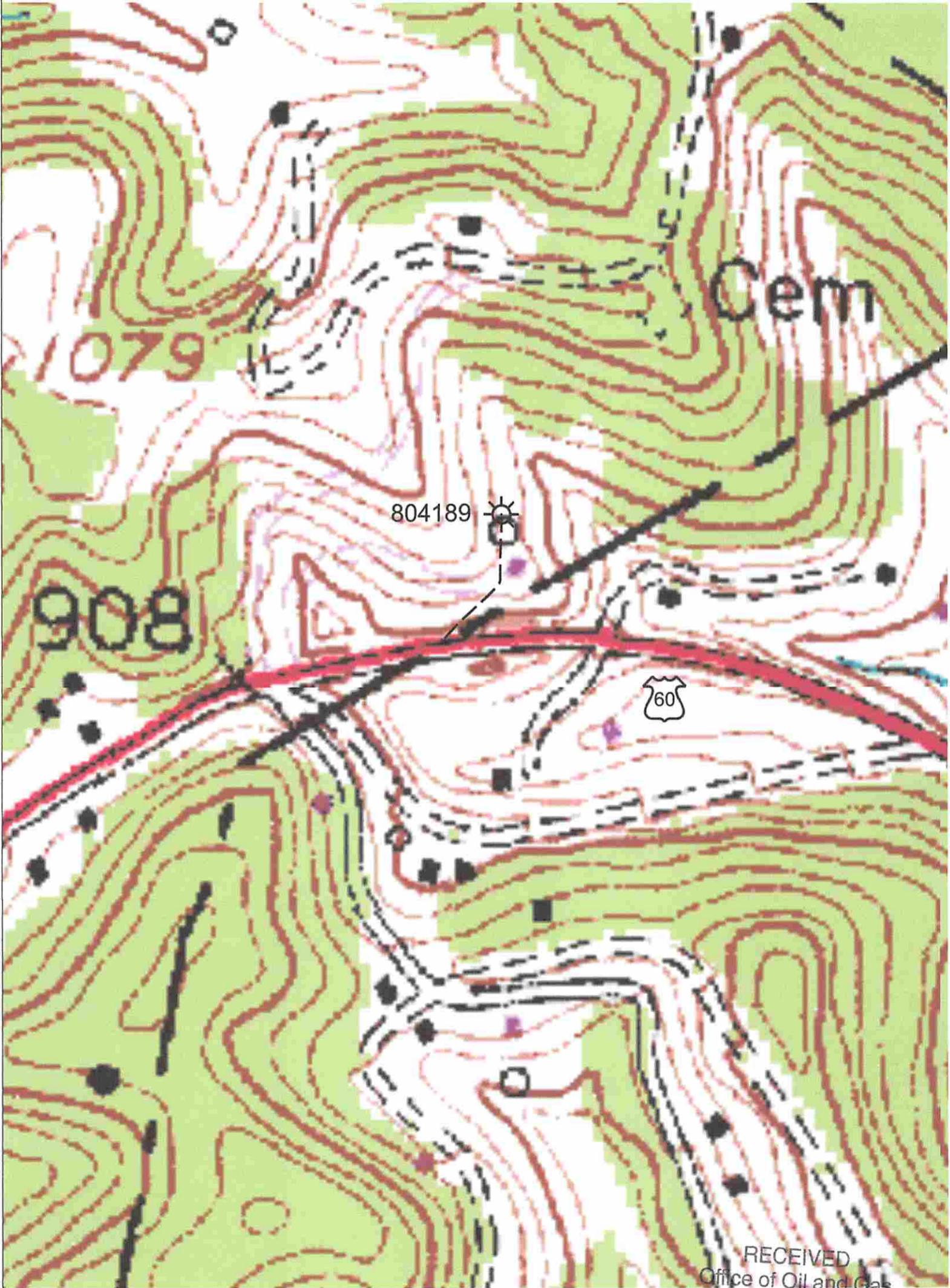
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CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND
WELL LOCATION 804189

API 47-079-00879

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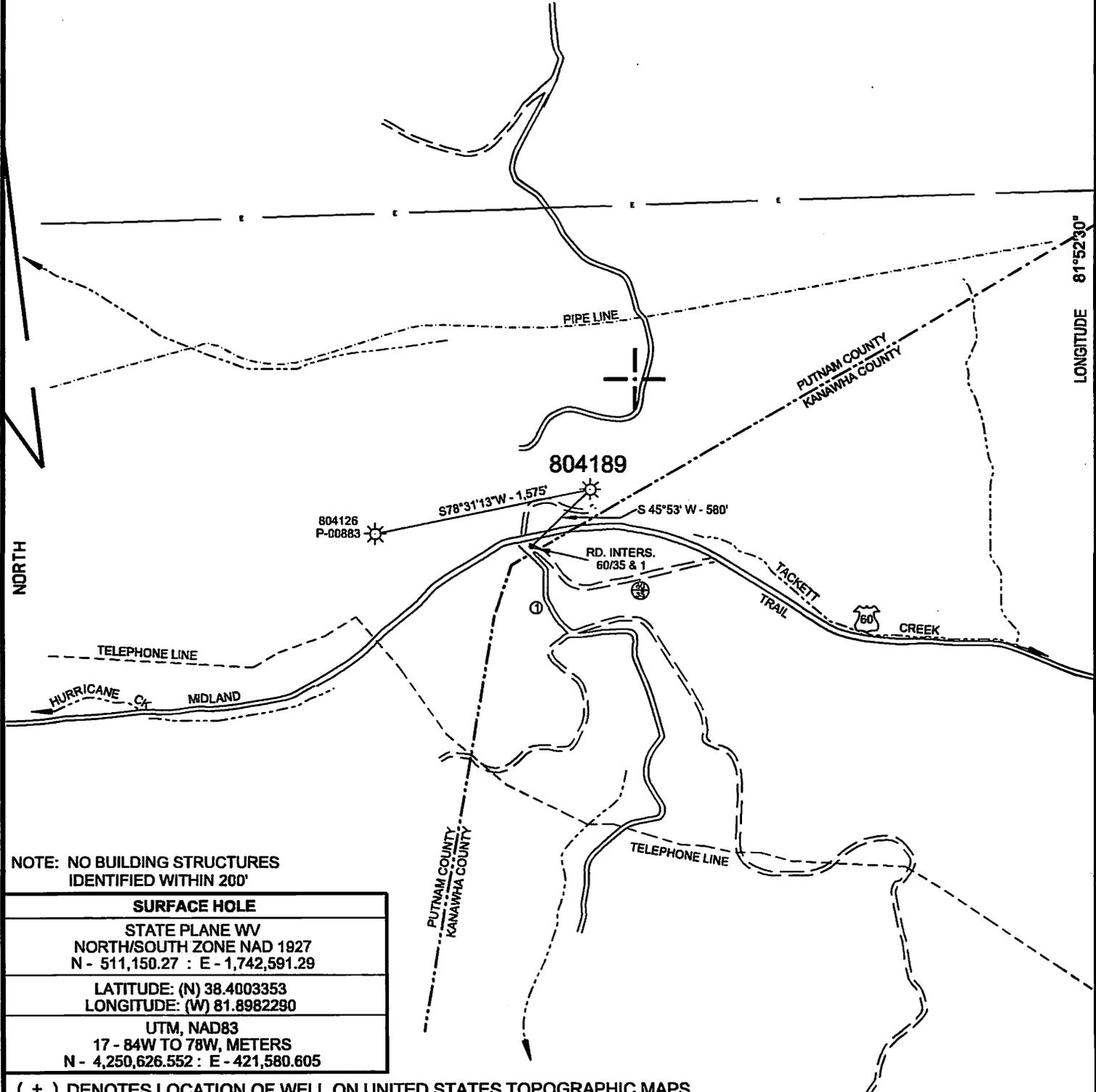
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NOTE: ALL WELLS IDENTIFIED
WITHIN 2400' ARE SHOWN

LATITUDE 38°25'00"

6,615'

LONGITUDE 81°52'30"



NOTE: NO BUILDING STRUCTURES
IDENTIFIED WITHIN 200'

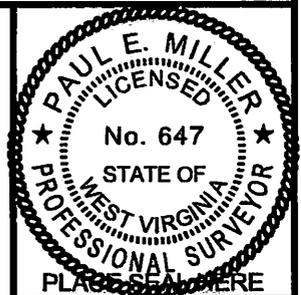
SURFACE HOLE	
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 511,150.27 : E - 1,742,591.29	
LATITUDE: (N) 38.4003353 LONGITUDE: (W) 81.8982290	
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,250,626.552 : E - 421,580.605	

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

FILE NO. 804189P&A.DGN
DRAWING NO. 804189 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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT 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 NOVEMBER 21, 2014
OPERATOR'S WELL NO. 804189
API WELL NO.

47 079 00879 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 927' WATER SHED TACKETT CREEK OF COAL RIVER
DISTRICT CURRY COUNTY PUTNAM
QUADRANGLE SCOTT DEPOT, WV 7.5'

SURFACE OWNER MARK TURLEY ACREAGE _____
OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE _____

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 PO BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS PO BOX 6070, CHARLESTON, WV 25362

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FORM WW-6

COUNTY NAME

PERMIT