



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

July 14, 2014

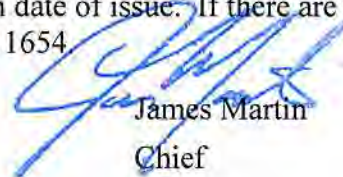
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301093, 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: 808024 (8024)
Farm Name: CHAPMAN, MICHAEL ET AL
API Well Number: 47-4301093
Permit Type: Plugging
Date Issued: 07/14/2014

Promoting a healthy environment.

07/18/2014

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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 within two years of the date of issuance of this permit.

4301093A

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

1) Date: 4/23/2014
2) Operator's Well No. 808024 P&A
3) API Well No. 47-043-01093

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 922' Watershed Little Deadening Creek of Big ugly Creek
District Harts Creek County Lincoln Quadrangle Mud, WV 7.5'
- 6) Well Operator Chesapeake Appalachia, L.L.C. 7) Designated Agent Eric B. Gillespie
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 Ralph D. Triplett Date May 27, 2014

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07/18/2014

808024 P&A PROCEDURE

- OK Run
- 1) Prepare road and location, MIRU service rig
 - 2) RIH with tools to check top of fill at approximately 1950' *OR DEEPER.*
 - 3) TIH with W.S. to 1930', load hole with gel *OR DEEPER.*
 - 4) Spot 150' cement plug 1930'-1780', pull W.S. to 1650'
 - 5) Spot 200' cement plug 1650'-1450', pull W.S. 7"
 - 6) RIH with tools to check top of plug (If TOC is below 1475' then reset plug)
 - 7) Cut 7" at free-point (approximately 850') and pull
 - 8) Run W.S. to 850', load hole with gel
 - 9) Spot 100' cement plug 850'-750', pull W.S. to 675' *SALT WATER*
 - 10) Spot 100' cement plug 675'-575', pull W.S.
 - 11) Attempt to pull 8 5/8" casing
 - A) If successful
 - a) Run W.S. to 200', load hole with gel, pull W.S. to 150'
 - b) Spot 150' cement plug 150'-surface
 - c) Proceed to step #12
 - B) If unsuccessful
 - a) Run W.S. to 250'
 - b) Spot 100' cement plug 250'-150', pull W.S.
 - c) Cut 8 5/8" at free-point (approximately 125') and pull
 - d) Run W.S. to 125', spot 125' cement plug 125' – surface
 - e) Proceed to step #12
 - 12) Pull W.S. and top off with cement
 - 13) Erect monument and reclaim as prescribed by law

RPT
5/27/14

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

API 47-043-01093P
Well 808024

WELL RECORD

Permit No. LIN-1093

Oil or Gas Well Gas
(KIND)

Company UNITED FUEL GAS COMPANY
Address P.O. Box 1273, Charleston 25, W.Va.
Farm H. Watson Starcher, et al #1 Acres 1100a
Location (waters) Big Ugly Creek
Well No. 8024 P.I. Elev. 935.52
District Harts Creek County Lincoln
The surface of tract is owned in fee by
Address
Mineral rights are owned by United Fuel Gas Company
Address Charleston, W.Va.
Drilling commenced 7-21-52
Drilling completed 1-12-53
Date Shot 1-14-53 From 3132 To 3713
With 3800# Gelatin
Open Flow 12/10ths Water in 1" Inch
 /10ths Merc. in Inch
Volume 37,000 Cu. Ft.
Rock Pressure 410 lbs. 48 hrs.
Oil bbls., 1st 24 hrs.
Fresh water feet
Salt water 814 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10		34'	Size of
8 3/8		202'	
7"		1502'	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 56 FEET 36 INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	10	Hole full water	814'	
Slate & Shells			10	28			
Quick Sand			28	37	Show gas	2219'	
Sand			37	47			
Slate			47	56	Show gas	2224'	
Coal			56	59			
Sand			59	350	Show gas	3345'	
Slate			350	414			
Sand			414	439	Show gas	3357'	
Slate & Shells			439	676			
Salt Sand			676	835	Show gas	3435'	
Break			835	842			
Sand			842	1029	Hole cemented from	3075	
Slate			1029	1067			
Sand			1067	1314	Not enough gas to gauge before shot		
Red Rock			1314	1321	Shot 1-14-53 with 3800# Gelatin from		
Slate			1321	1338	3132-3713'		
Maxon Sand			1338	1386	Test 1 hr. after shot 20/10 W 2" 189 M		
Slate			1386	1392	Final test after shot 12/10 W 1" 37 M		
Red Rock			1392	1396			
Gray Slate			1396	1436	Shot 1-19-53 with 200# Gelatin from		
Little Lime			1436	1466	2217-2238'		
Pencil Cave			1466	1469	Final open flow 12/10 W 1" 37 M		
Big Lime			1469	1624			
Red Injun			1624	1705			
Gray Injun			1705	1733			
Lime Shells			1733	1897	FINAL OPEN FLOW-37 M-Berea & Br. Shale		
Slate			1897	2204	48 Hr. R.P. 410#		
Brown Shale			2204	2216			
Berea Grit			2216	2244			
Lime Shells			2244	2340	Shut in 1-23-53 in 7" Casing		
Slate & Shells			2340	3345			
Brown Shale			3345	3405			
Gray Slate			3405	3442			
Brown Shale			3442	3510			
Gray Shale			3510	3537			
Brown Shale			3537	3702			
White Slate			3702	3713			
Total depth			3713'				



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Office of Oil and Gas
MAY 22 2014
WV Department of
Environmental Protection

07/18/2014

WW4-A
Revised
2/01

1) Date: 4/23/2014
2) Operator's Well No. 808024 P&A
3) API Well No. 47-043-01093

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 Michael Chapman, et al
Address 2107 Big Ugly Road
Harts, WV 25524

(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 Big Ugly Coal Corporation
Address 1133 Kings Highway
Saugerties, NY 12477

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 23rd day of April the year of 2014
Phyllis A. Copley Notary Public

My Commission Expires September 16, 2018
Form WW-9

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Office of Oil and Gas
MAY 22 2014
WV Department of
Environmental Protection
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Well 808024
API 47-043-01093P

5132872
10000

7012 3460 0000 4499 2784

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HARTS WV 25524

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	05/21/2014

Sent To **808024 P&A**

Street, A
or PO Box Michael Chapman, Et Al

City, State 2107 Big Ugly Road

Harts, WV 25524

PS Form Actions

7012 3460 0000 4499 2777

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SAUGERTIES NY 12477

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	05/21/2014

Sent To **808024 P&A**

Street, A
or PO Box Big Ugly Coal Corporation

City, State 1133 Kings Highway

Saugerties, NY 12477

PS Form Actions

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WV Department of
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Rev. 02/01

API Number 47-043-01093
Operator's Well No. 808024 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 Little Deadening Creek of Big Ugly Creek Quadrangle Mud, WV 7.5'

Elevation 922' County Lincoln District Harts Creek

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

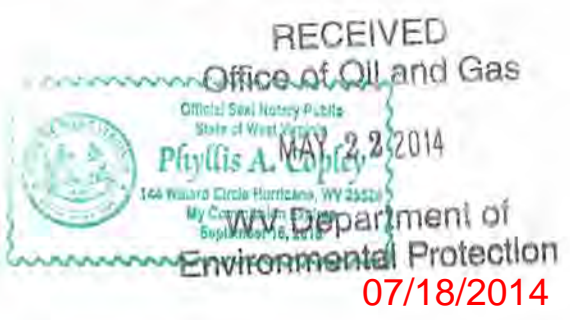
Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 3rd day of April, 2014.

Phyllis A. Copley

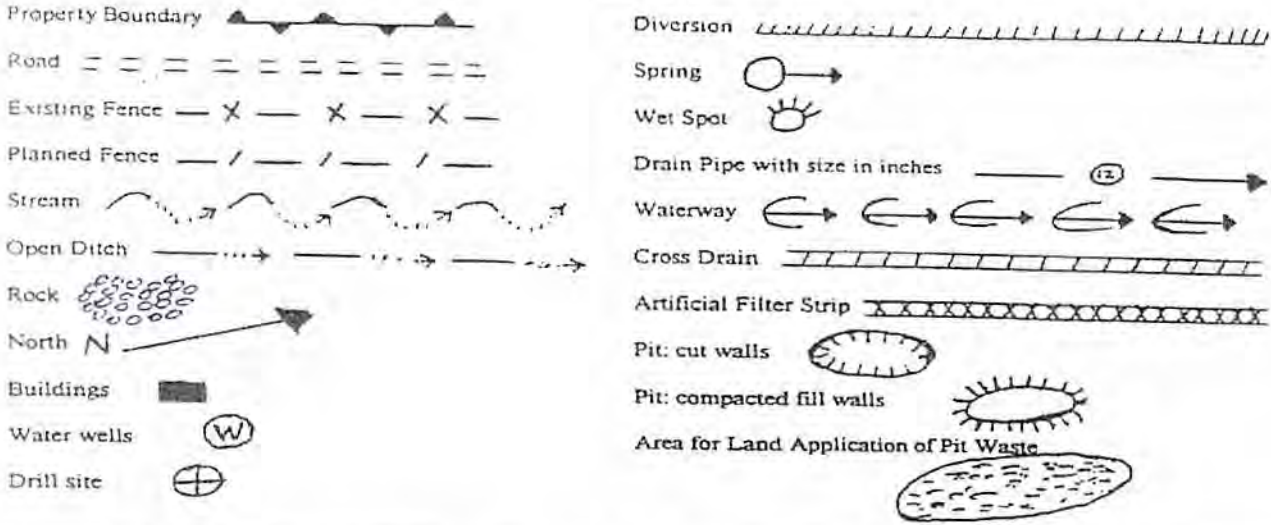
Notary Public.

My Commission Expires September 16, 2018



API #: 47-043-01093 ^P
 Operator's Well No. 808024 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: Raepl D. Tripod

Title: District Inspector

Date: May 27, 2014

Field Reviewed? () Yes () No

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 07/18/2014

CHESAPEAKE APPALACHIA, L.L.C.

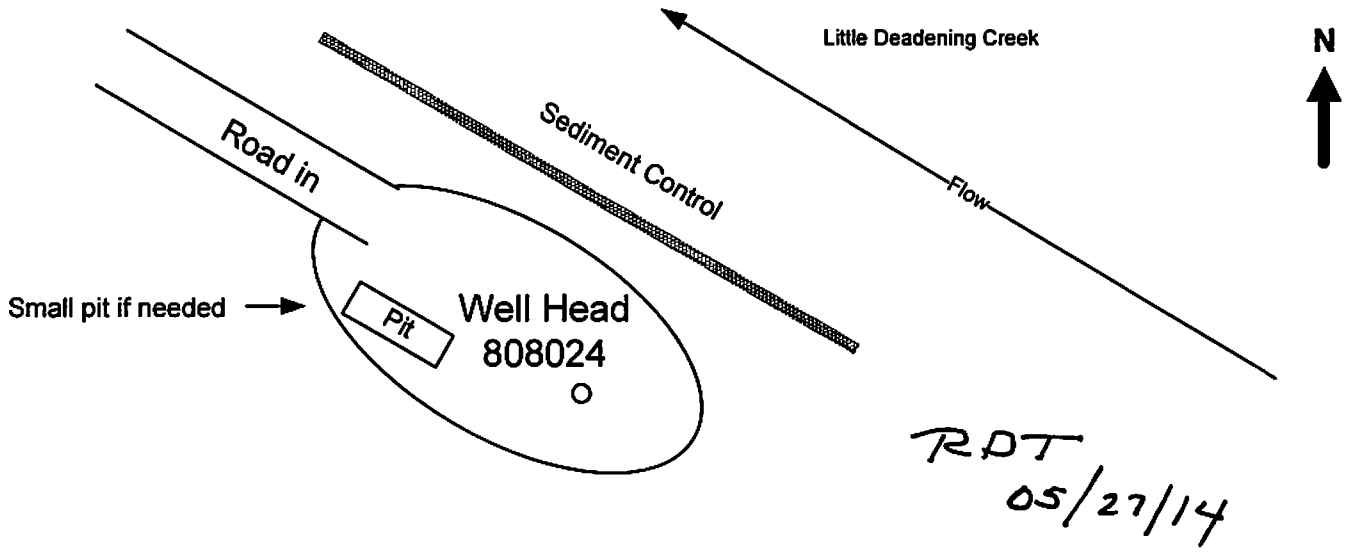
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Diagram of Location 808024 for P&A

API 47-043-01093

Field Office - Branchland

County - Lincoln



RDT
05/27/14

Surface Owner:
Michael Chapman

REQUESTED
DETAIL DRAWING
KA 5-29-14

Site Plan

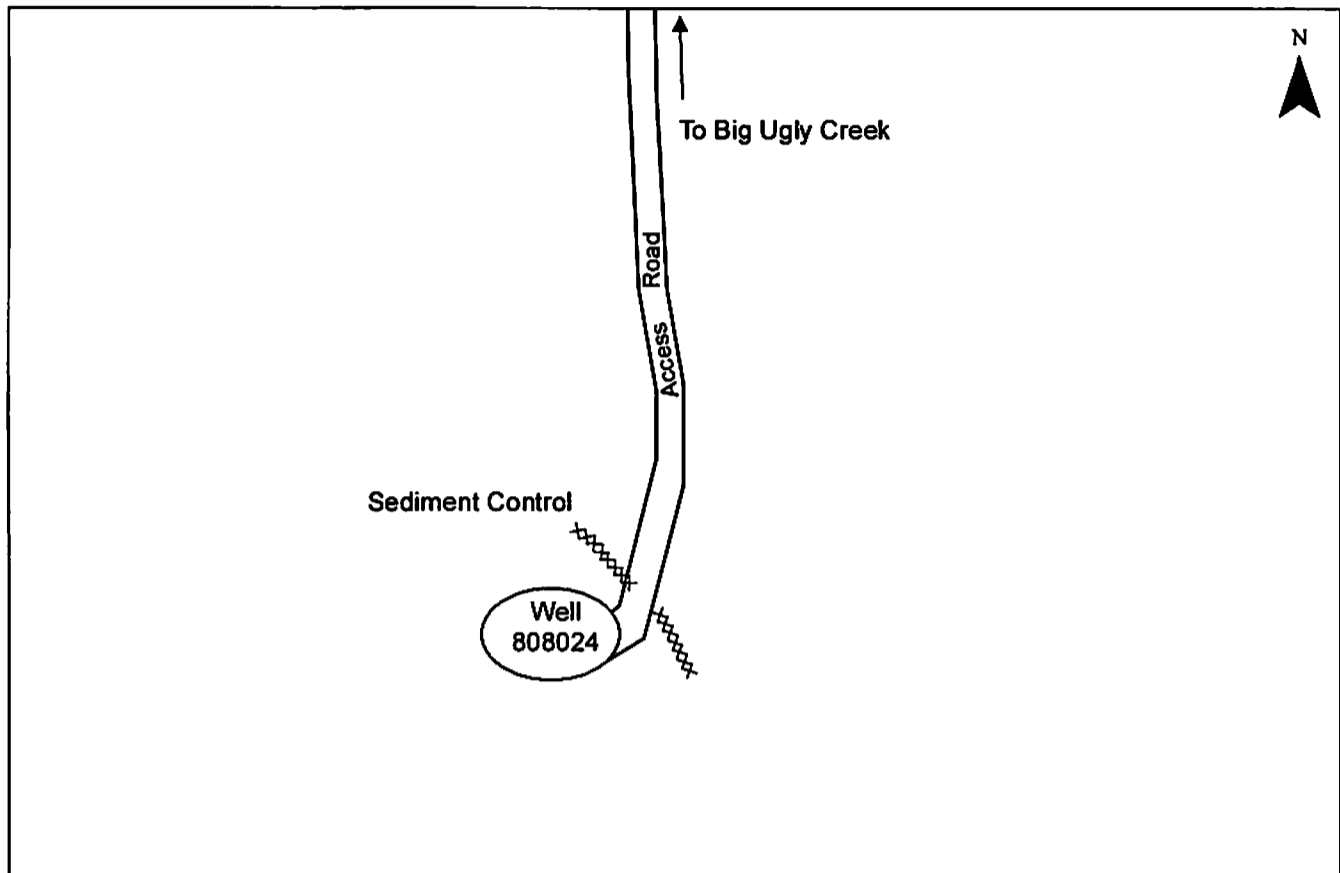
CHESAPEAKE APPALACHIA, L.L.C.

Diagram of Well 808024

API 47-043-01093

Field Office - Branchland

County - Lincoln

**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 outfall 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 and 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 areas that will allow. These structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1

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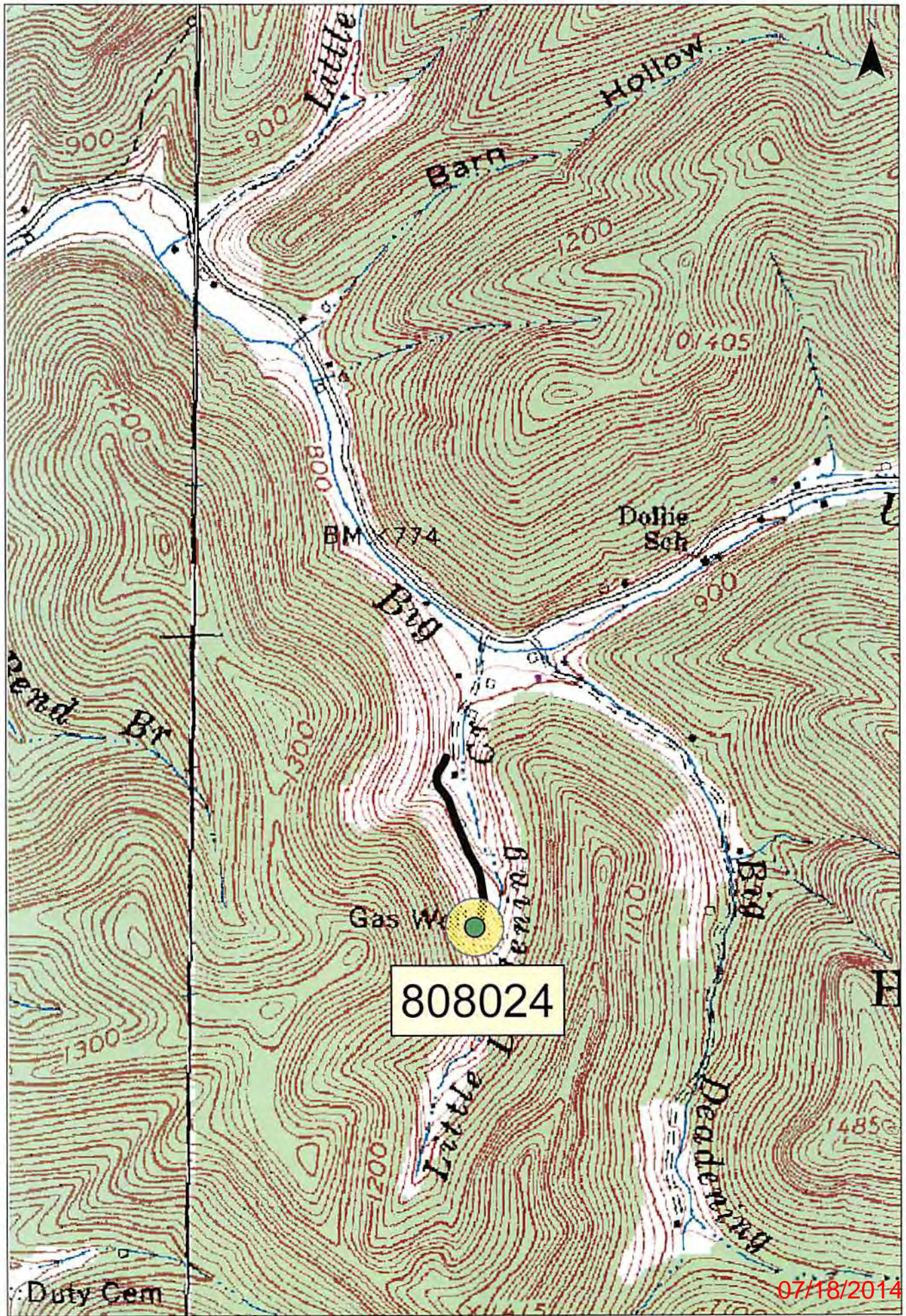
07/18/2014
WV Department of
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Site Plan

Prepared by: Lloyd Reynolds
Date: 05/20/2014

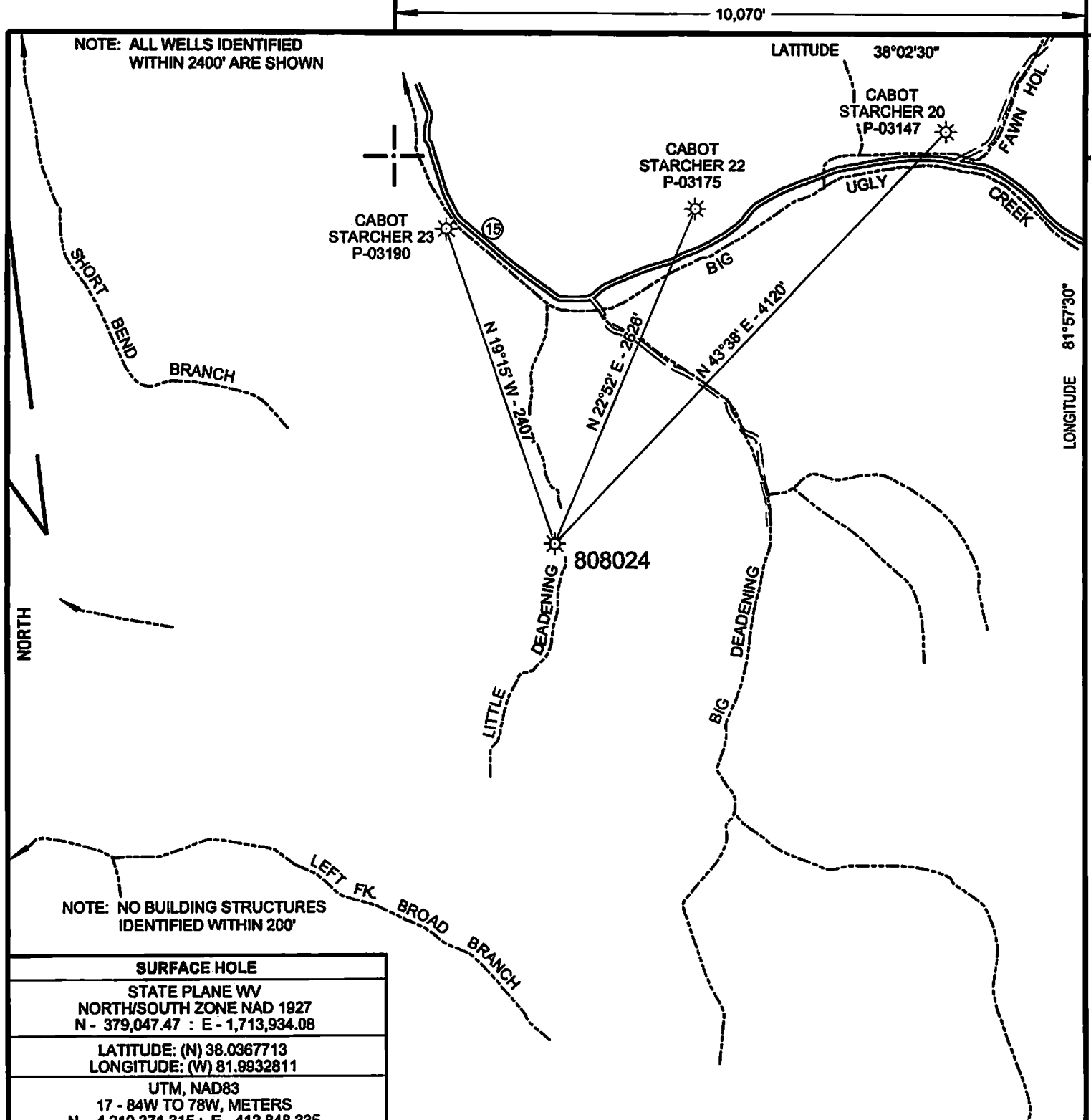
CHESAPEAKE APPALACHIA, L.L.C.

Topographical Map of Access
and Well Location 808024
API 47-043-01093
Field Office - Branchland
County - Lincoln



1:10,000

0 450 900 1,800 Feet



SURFACE HOLE
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 379,047.47 : E - 1,713,934.08
LATITUDE: (N) 38.0367713 LONGITUDE: (W) 81.9932811
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,210,371.315 : E - 412,848.335

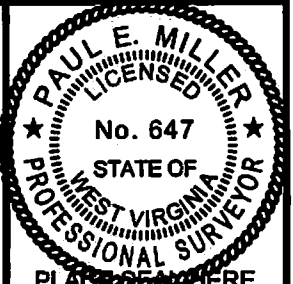
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO.	808024P&A.DGN
DRAWING NO.	8024 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 MARCH 28, 2014
		OPERATOR'S WELL NO. 808024
		API WELL NO. _____
		47 043 01093 P
		STATE COUNTY PERMIT
WELL TYPE: OIL ___ GAS <input checked="" type="checkbox"/> LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS,") PRODUCTION <input checked="" type="checkbox"/> STORAGE ___ DEEP ___ SHALLOW <input checked="" type="checkbox"/>		
LOCATION: ELEVATION 922' WATER SHED LITTLE DEADENING CR. OF BIG UGLY CREEK		
DISTRICT HARTS CREEK COUNTY LINCOLN		
QUADRANGLE MUD. WV 7.5'		
SURFACE OWNER MICHAEL CHAPMAN et al ACREAGE 183.33		
OIL & GAS ROYALTY OWNER CLARA HOME RESTIVO REVOCABLE LIVING TRUST et al LEASE ACREAGE 22.947		
		LEASE NO. 1-050377-000 - FEE 1-000026-000 07/18/2014
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 <input checked="" type="checkbox"/> CLEAN OUT AND REPLUG ___		
TARGET FORMATION _____ ESTIMATED DEPTH _____		
WELL OPERATOR CHESAPEAKE APPALACHIA L.L.C. DESIGNATED AGENT ERIC B. GILLISPIE		
ADDRESS PO 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS PO BOX 6070 CHARLESTON, WV 25362		

FORM WV-6

COUNTY NAME PERMIT