



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

June 13, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-7500048, 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: MONO.NAT. FOR.1

Farm Name: US DEPT AGRIC. FOREST SER

API Well Number: 47-7500048

Permit Type: Plugging

Date Issued: 06/13/2016

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.

Inspector's signed copy

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

1) Date: 5/5/2016
2) Operator's Well No. 823952
3) API Well No. 47-075-00048

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 3,635' Watershed Long Run of East Fork of Greenbrier River
District Green Bank County Pocahontas Quadrangle Thornwood, 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 Danny Mullins Name Chesapeake Appalachia, L.L.C.
Address 220 Jackacres Road Address P.O. Box 18496
Buckhannon, WV 26201 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 Danny Mullins Date 5-16-16

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MAY 23 2016
WV Department of
Environmental Protection

P&A PROCEDURE

- 1) Prepare road and location, MIRU Service Rig
- 2) Check pressure on tubing and casing
- 3) Blow well down to tank
- 4) If needed, kill well with enough fill to kill highest pressure plus 25% safety factor
- 5) If needed, install BOP, tag PBTD with tubing (expect approximately 5235'), TOH with tubing
- 6) Remove cage/seating nipple and inspect tubing. If tubing is in suitable condition, use as work string – if not, replace.
- 7) TIH with W.S. to PBTD at approximately 5235' or 5275' if possible, spot gel
- 8) Spot 235' cement plug approximately 5235'-5000', pull W.S.
- 9) RIH with tools or tubing to check top of plug. If TOC is below 5050', then add to top of plug
- 10) Pull or run W.S. to 4900', spot gel
- 11) Spot 150' cement plug 4900'-4750', pull W.S.
- ★ 12) Cut 4 1/2" at free-point (approximately 1750') and pull
- 13) TIH with W.S. to casing cut at approximately 1750', spot gel
- 14) Spot 100' cement plug approximately 1750'-1650', pull W.S. to 1075'
- 15) Spot 150' cement plug 1075'-925', pull W.S., WOC
- 16) RIH with tools or tubing to check top of plug. If TOC is below 950', then add to top of plug.
- 17) Run or pull tubing to 200'
- 18) Spot 200' cement plug 200'-surface
- 19) Pull W.S. and top off with cement
- 20) Erect monument and reclaim as prescribed by law

DM

3635' Elevation
3885' to 3585'
100' cement plug

★ TOC IS MUCH LOWER THAN 1750'. MAY HAVE TO ADJUST CASING CUT.

JMM

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WV Department of
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Well 823952

Page 1 of 2

WR-35

Date: 29-Oct-98
API # 47-075-00048

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: U.S. Department of Agriculture Operator Well No.: MNF #1

LOCATION: Elevation: 3,635' Quadrangle: Thronwood
District: Greenbank County: Pocahontas
Latitude: 9,230 feet South of 38 DEG. 35 MIN. 0 SEC.
Longitude: 860 feet West of 79 DEG. 40 MIN. 0 SEC.

Company: Cabot Oil & Gas Corporation
400 Fairway Drive: Suite 400
Coraopolis, PA 15108-4308

Agent: John Abshire
Inspector: Craig Duckworth
Permit Issued: 5/6/98
Well Work Commenced: 8/26/98
Well Work Completed: 9/26/98
Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet) 5474'
Fresh Water Depths (ft) 72', 200'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
16"	35'	35'	
9-5/8"	1006.80'	1006.80'	365 sks Class "A"
4-1/2"	5456.70'	5456.70'	160 sks RFC

Salt Water Depths (ft)

Is coal being mined in area (Y / N)?
Coal Depths (ft)

OPEN FLOW DATA

Producing formation Oniskany Pay zone depth (ft) 5214' - 5224'
Gas: Initial open flow 211 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 713 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock pressure 1350 psig (surface pressure after 48 Hours)

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure after _____ Hours)

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: CABOT OIL & GAS CORPORATION

By: Ray Prudnick
Date: 11-5-98

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MAY 09 2016

POCA 0048

Well 823952
 API 47-075-00048
 Page 2 of 2

OPEN FLOW DATA

Perf'd Oriskany from 5214' - 5224'. Broke down with treated water at 3300 psi. Pumped 50 bbls @ 25 bpm. ISIP: 2250 psi. Frac'd with 1,560 bbls x-link gel, 121,260# 20/40 mesh sand. ATP: 2850 psi. MTP: 3600 psi. ATR: 30 bpm. ISIP: 2450 psi.

FORMATION	TOP	BOTTOM	REMARKS
KB	0	12	
Sand/Shale	12	2125	
Shale/Sand	2125	2510	
Igneous	2510	2524	
Sand/Shale	2524	3062	
Igneous	3062	3074	
Shale	3074	3126	
Igneous	3126	3162	
Shale/Sand	3162	3907	
Igneous	3907	3938	
Sand	3938	3962	
Shale	3962	4308	
Sand/Shale	4308	4556	
Shale	4556	4616	
Tully	4616	4656	
Sand/Lime	4656	4722	
Shale	4722	4844	
Upper Marcellus	4844	4894	
Purcell	4894	4930	
Lower Marcellus	4930	4976	
Onondaga	4976	5039	
Huntersville	5039	5091	
Needmore	5091	5133	
Oriskany	5133	5308	
Helderberg	5308	5474 - TD	

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 Office of Oil & Gas

MAY 09 2016

WW4-A
Revised
1/01

1) Date: 5/5/2016
2) Operator's Well No. 823952
3) API Well No. 47-075-00048

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 U.S. Department of Agriculture
Address U.S. Forest Service/
Mon. National Forest
200 Sycamore Street
Elkins, WV 26241-3962
(b) Name _____
Address _____
(c) Name _____
Address _____

5) Coal Operator
(a) Name None
Coal Owner(s) with Declaration
(b) Name U.S. Department of Interior
Address Bureau of Land Mgmt - Eastern States
626 E. Wisconsin Ave., Suite 200
Milwaukee, WI 53202-4617
Name _____
Address _____
Name _____
Address _____

6) Inspector Danny Mullins
Address 220 Jackacres Road
Buckhannon, WV 26201
Telephone 304-932-6844

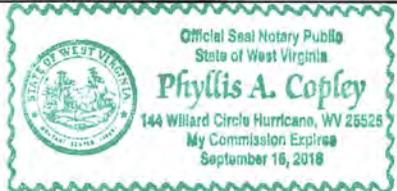
Coal Lessee with Declaration
(c) Name None
Address _____

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 5th day of May the year of 2016

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

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Office of Oil & Gas
MAY 09 2016

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Office of Oil and Gas

JUN 13 2016

Form WW-9
4/16)

API Number 47-075-00048
Operator's Well No. 823952

WV Department of Environmental Protection
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chesapeake Appalachia, L.L.C. OP Code 494477557
Watershed (HUC 10) Long Run of East Fork of Greenbrier River Quadrangle Thornwood, WV 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work No

Description of anticipated Pit Waste: Plugging Returns/Cement

Will a synthetic liner be used in the pit? No If so, what 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: No pit will be used. Fluid will be collected in steel tanks and hauled for proper disposal)

Will closed loop system be used? No If so, describe: _____

Drilling medium anticipated for this well (Vertical and horizontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____
-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2015, 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*

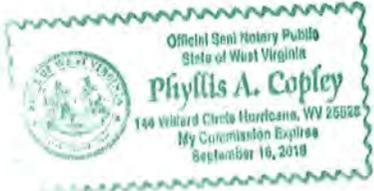
Company Official (Typed Name) David Gocke

Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 13th day of June, 2016.

Phyllis A. Copley Notary Public.

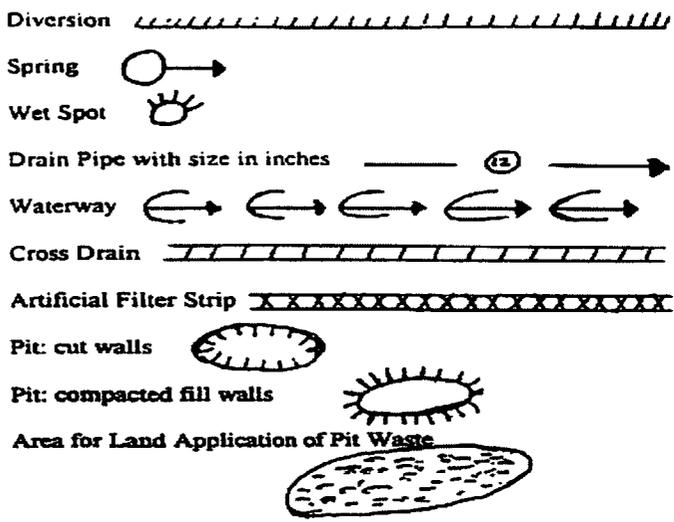
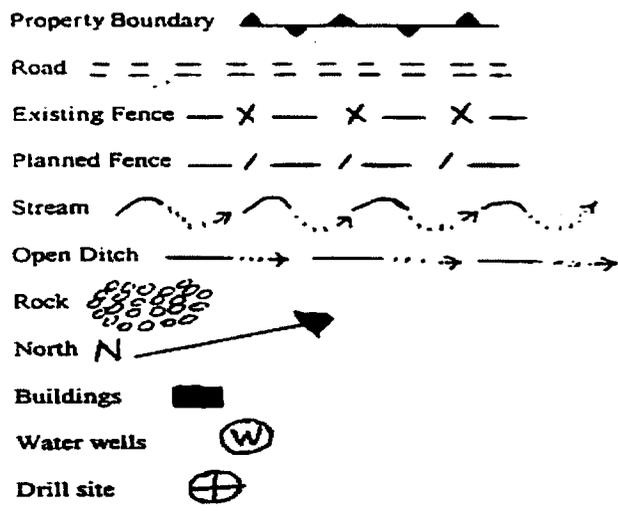
My Commission Expires September 16, 2018



Attachment #1

API #: 47-075-00048
 Operator's Well No. 823952

LEGEND



- Timothy - 7 lbs./acre
- Kentucky Bluegrass - 7 lbs./acre
- Winter Wheat (June 15-Nov. 15) or Spring Wheat (Feb. 15-June 15) - 12 lbs./acre
- Annual Rye (June 15-Nov. 15) or Oats (Feb. 15-June 15) - 14 lbs/acre
- Alfalfa (pre inoculated) - 10 lbs./acre
- Durana Clover (pre inoculated) - 3 lbs./acre
- Mammoth Red Clover (pre inoculated) - 5 lbs./acre
- Chicory - 2 lbs./acre

Total Seeding will be 60 lbs./acre

- Mulch - Weed free straw at 1500 lbs./acre
- Fertilizer - 10-20-10 at 500 lbs./acre
- Lime - Agricultural lime or lime pellets at 3 tons/acre

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

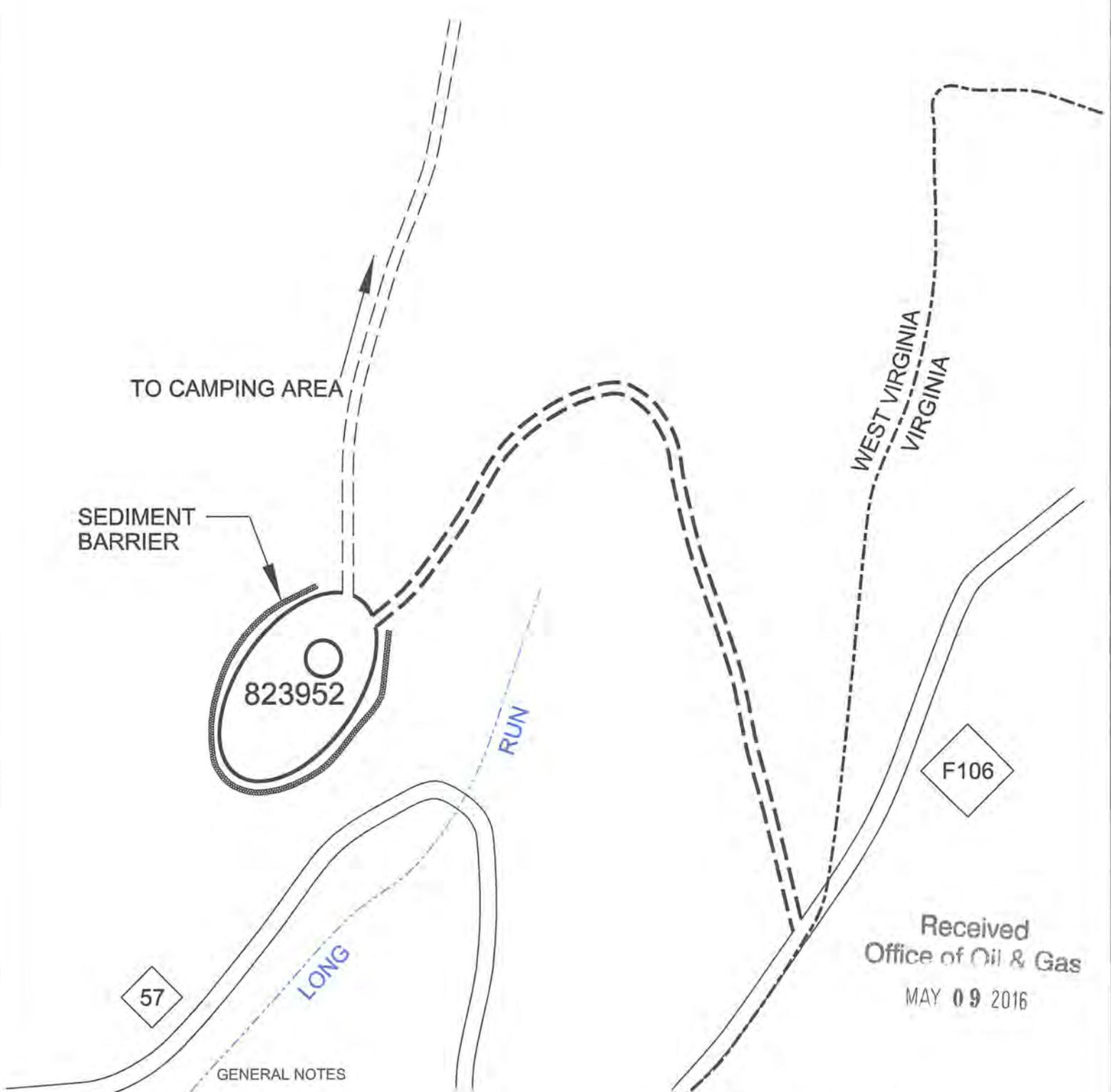
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 Office of Oil & Gas
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CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM WELL LOCATION 823952

API 47-075-00048



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MAY 09 2016

GENERAL NOTES

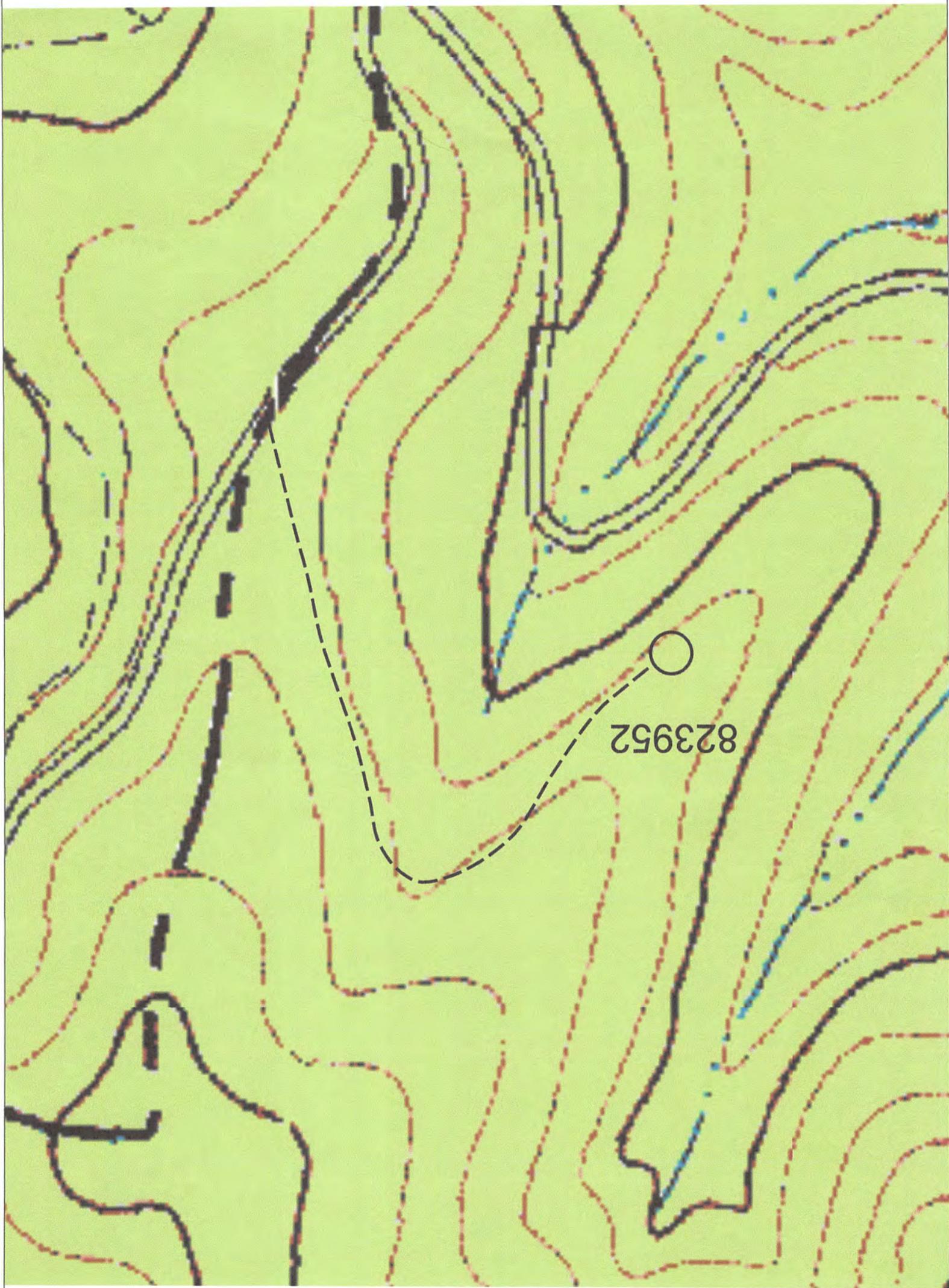
This drawing is a schematic representation of the well site and access road. Proposed structures such as well site, drilling pit, roadways, culverts, sediment barriers, etc. are show in approximate pre-planning configurations.

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.

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



CHESAPEAKE APPALACHIA, L.L.C.
TOPOGRAPHICAL MAP OF ACCESS AND
WELL LOCATION 823952
API 47-075-00048

7500407

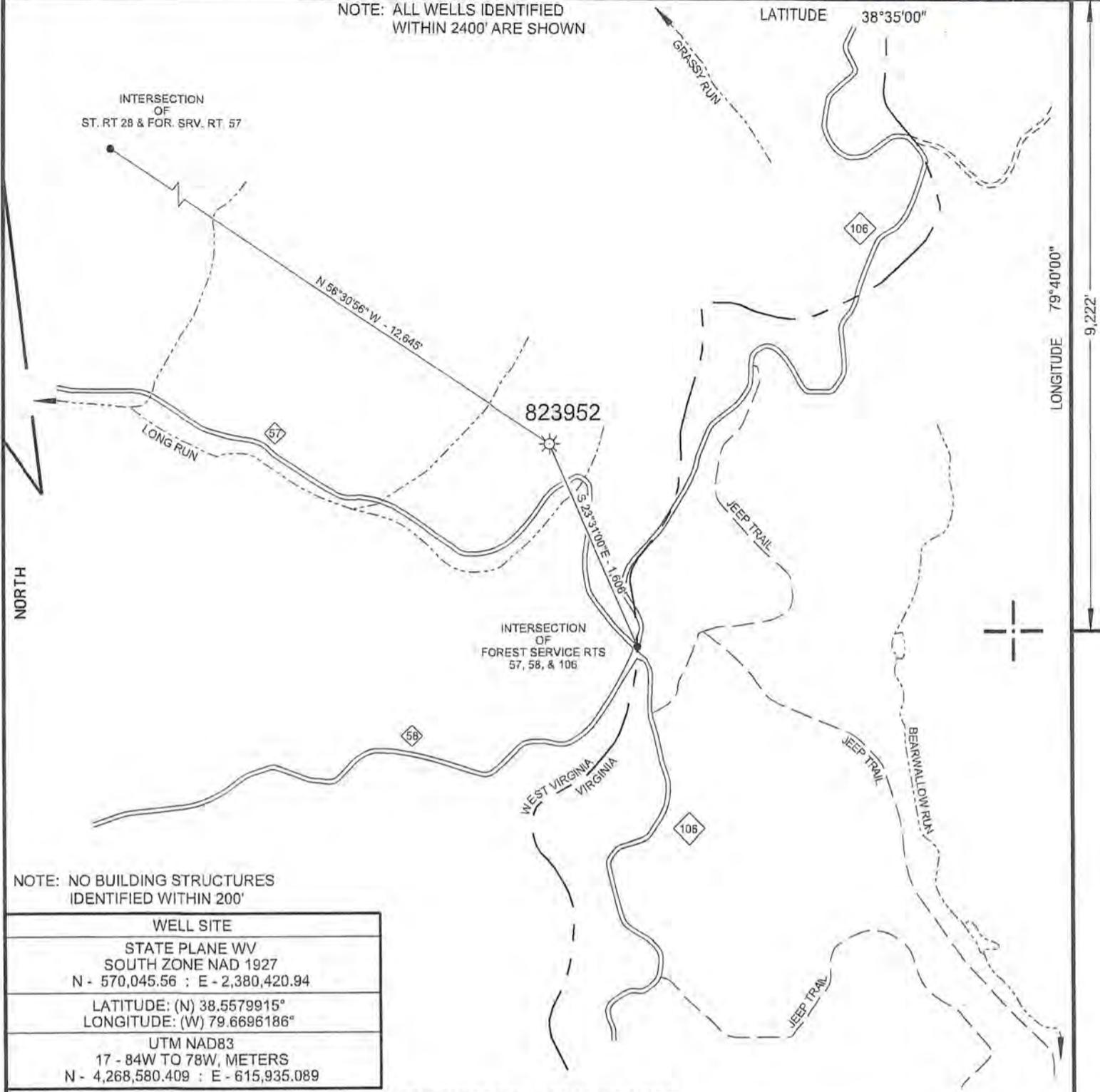
75 00048 P

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 38°35'00"

LONGITUDE 79°40'00"

9,222'



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

WELL SITE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 570,045.56 : E - 2,380,420.94	
LATITUDE: (N) 38.5579915° LONGITUDE: (W) 79.6696186°	
UTM NAD83 17 - 84W TO 78W, METERS N - 4,268,580.409 : E - 615,935.089	

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

FILE NO.	CA 823952 P&A.DGN
DRAWING NO.	CA 823952 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 OCTOBER 5, 20 15
OPERATOR'S WELL NO. 823952
API WELL NO.

47 075 00048 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 3.635' WATER SHED LONG RUN OF EAST FORK OF GREENBRIER RIVER
DISTRICT GREEN BANK COUNTY POCAHONTAS
QUADRANGLE THORNWOOD, WV 7.5'

SURFACE OWNER UNITED STATES OF AMERICA ACREAGE --
OIL & GAS ROYALTY OWNER US BUREAU OF LAND MANAGEMENT LEASE ACREAGE --
LEASE NO. BLM-A-017120

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 ORISKANY 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

FORM WV-6

850'

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 38°35'00"

LONGITUDE 79°40'00"

9,222'

INTERSECTION OF ST. RT 28 & FOR. SRV. RT. 57

N 56°30'56" W - 12,645'

823952

INTERSECTION OF FOREST SERVICE RTS 57, 58, & 106

WEST VIRGINIA VIRGINIA

NORTH

NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

WELL SITE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 570,045.56 : E - 2,380,420.94
LATITUDE: (N) 38.5579915° LONGITUDE: (W) 79.6696186°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,268,580.409 : E - 615,935.089

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

FILE NO. CA 823952 P&A.DGN
DRAWING NO. CA 823952 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 OCTOBER 5, 2015
OPERATOR'S WELL NO. 823952
API WELL NO.

47 075 00048 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 3,835' WATER SHED LONG RUN OF EAST FORK OF GREENBRIER RIVER

DISTRICT GREEN BANK COUNTY POCAHONTAS

QUADRANGLE THORNWOOD, WV 7.5'

SURFACE OWNER UNITED STATES OF AMERICA ACREAGE --

OIL & GAS ROYALTY OWNER US BUREAU OF LAND MANAGEMENT LEASE ACREAGE --

LEASE NO. BLM-A-017120

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 ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION ORISKANY 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

FORM WW-6

COUNTY NAME

PERMIT