



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

February 23, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3901776, 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: 9092
Farm Name: TCO FEE
API Well Number: 47-3901776
Permit Type: Plugging
Date Issued: 02/23/2016

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.

39 01776P

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

1) Date: 1/29/2016
2) Operator's Well No. 809092 P&A
3) API Well No. 47-039-01776

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 1,226' Watershed Right Fork of Slack Branch
 District Elk County Kanawha Quadrangle Quick, 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 Terry Urban Name Chesapeake Appalachia, L.L.C.
 Address P.O. Box 1207 Address P.O. Box 18496
Clendenin, WV 25045 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 *Terry Urban* Date 2-5-16

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FEB 05 2016
WV Department of
Environmental Protection

CALL Insp - 304-549-5915

API Number: 47-039-01776 P

Operator's Well Number: 809092

PLUGGING PROCEDURE

Note: 7" appears to be pulled.

- 1) Prepare road and location, MIRU service rig
- 2) Attempt to pull 2 3/8" tubing and packer
 - A) If successful:
 - a) RIH with tools to check TD at approximately 1980' TD ≈ 2172'
 - b) TIH with W.S. to 1950', spot gel
 - c) Spot 250' cement plug 1950'-1700', pull W.S.
 - d) RIH with tools to check TOC. If top of cement is below 1750', then add cement to top of plug.
 - e) Proceed to step 3
 - B) If unsuccessful:
 - a) Run tools with rod through seating collar at 1952'
 - b) Cement down tubing with 10 sacks and displace to 1850'
 - c) Cut 2" at free-point (approximately 1760') and pull
 - d) Run W.S. to 1760', spot gel
 - e) Spot 100' cement plug 1760'-1560', pull W.S.
 - f) Proceed to step 5
- 3) Pull or run W.S. to 1700', spot gel
- 4) Spot 100' cement plug 1700'-1600', pull W.S.
- 5) Cut 4 1/2" at free-point (approximately 1200') and pull
- 6) Run W.S. to 1200', spot gel
- 7) Spot 100' cement plug 1200'-1100', pull W.S. to 900'
- 8) Spot 150' cement plug 900'-750', pull W.S.
- 9) RIH with tools to check TOC. If top of cement is below 800', then add cement to top of plug
- 10) Attempt to pull 8 5/8"
 - A) If successful
 - a) Run W.S. to 615', spot gel
 - b) Spot 100' cement plug 615'-515'
 - c) Proceed to step 11
 - B) If unsuccessful
 - a) Run W.S. to 615', spot gel
 - b) Spot 100' cement plug 615'-515', pull W.S.
 - c) Cut 8 5/8" at free-point (approximately 420') and pull
 - d) Proceed to step 11
- 11) Run or pull W.S. to 420', spot gel
- 12) Spot 150' cement plug 420'-270', pull W.S. to 175'

NOTE: If at least 400' of 8 5/8" cannot be pulled, then rip holes in casing so this plug can be set and pull pipe from where free. Then set 100' cement plug at cut.
- 13) Spot 175' cement plug 175'-surface
- 14) Pull W.S. and top off with cement
- 15) Erect monument and reclaim as prescribed by law

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[Handwritten Signature]
12-5-16

304-549-5915



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 9



Well 809092
API 47-039-01776A
Page 1 of 2

Quadrangle Clendenin

Permit No. KAN-1776

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Company
Address P.O. Box 1273; Charleston 25, W. Va.
Farm United Fuel Gas Co. Fee Acres 2675
Location (waters) Right Fork of Slack Branch
Well No. 9092 Elev. 1207.25
District Elk County Kanawha

The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by United Fuel Gas Co.
Address Charleston, W. Va.

Drilling commenced 6-12-61
Drilling completed 7-14-61
Date Shot _____ From _____ To _____

With _____
Open Flow /10ths Water in _____ Inch

 /10ths Merc. in _____ Inch
Volume 1,924,000 Injun & Weir Cu. Ft.

Rock Pressure 48 lbs. 315 hrs.
Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED _____

WELL FRACTURED _____

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water 220 Feet 260 Salt Water 1130 Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10 3/4		30'	Size of
8 5/8		551	
6 7/8		1712	Depth set
5 3/16			
4 1/2	Cemented	2172'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft _____ Date _____

COAL WAS ENCOUNTERED AT 140 FEET 24 INCHES
330 FEET 48 INCHES 377 FEET 48 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	29			
Sand			29	103	Water 220'	1	bailer per hour
Slate			103	140			
Coal			140	142	Water 260'	3	bailers per hour
Slate			142	153			
Sand			153	190	Show gas 950'		
Broken Sand			190	220			
Slate			220	226	Gas 1045'	6/10 W 2"	103 M
Sand			226	321			
Slate			321	330	Gas 1054'	10/10 W 2"	133 M
Coal			330	334			
Black Lime			334	370	Hole full water 1130'		
Slate			370	377			
Coal			377	381	Gas 1770'	12/10 W 7" 20#	1,518 M, exhausted.
Slate & Shells			381	527			
Sand			527	575			
Slate & Shells			575	735	Gas 1855-1880'	90/10 W 2"	400 M
Sand			735	790			
Slate & Shells			790	896	Gas 1950-2078'	70/10 W 2"	353 M
Salt Sand			896	1500			
Red Rock			1500	1512	Weir perforated at 2079 1/2', 2061 1/2', 2053 1/2', 2027 1/2', 2019 1/2', 1977 1/2' and 1970 1/2'		
Slate & Shells			1512	1609			
Maxon Sand			1609	1652			
Little Lime			1652	1675			
Slate			1675	1680	1 8-way jet shot at 1949'		
Lime			1680	1690			
Pencil Cave			1690	1704	Test before fracture 60/10 W 2"		327 M
Big Lime			1704	1855	Fractured Weir 7-24-61 with 500 bbls. water and 18,000# 20-40 sand		
Keener Sand			1855	1885			
Injun Sand			1885	1905			

(over)

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Formation	Color	Hard or Soft	Top 9	Bottom	Oil, Gas or Water	Depth Found	Remarks
Squaw Sand			1905	1916			
Slate & Shells			1916	1960			2 8-way jets at 1864' and 1853'
Broken Sand			1960	2050			
Weir Sand			2050	2130			Fractured Injun 7-24-61 with 500 bbls. water and 15,000# 10-20 sand
Slate & Shells			2130	2172			
Total Depth			2172'				Final open flow - 1,924 M - Injun and Weir Shut in 7-31-61 in 4 1/2" casing. LOGS RUN: Gamma Ray G. G. Density Temperature

Date October 4, 1961

APPROVED UNITED FUEL GAS COMPANY, Owner

By S. R. Ferrell
(Title)

Supt., Civil Engineering Dept.

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39 01776 P

WW4-A
Revised
2/01

1) Date: 1/29/2016
2) Operator's Well No. 809092 P&A
3) API Well No. 47-039-01776

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 The Hamilton Corporation
Address John D. Smallridge, Trustee
26 Capital Street
Charleston, WV 25301
(b) Name John D. Smallridge
Address P.O. Box 1508
Parkersburg, WV 26102
(c) Name _____
Address _____

5) Coal Operator
(a) Name None
Address _____
Coal Owner(s) with Declaration
(b) Name The Hamilton Corporation
Address John D. Smallridge, Trustee
26 Capital Street
Charleston, WV 25301
Name John D. Smallridge
Address P.O. Box 1508
Parkersburg, WV 26102

6) Inspector Terry Urban
Address P.O. Box 1207
Clendenin, WV 25045
Telephone 304-382-8402 304-549-5915

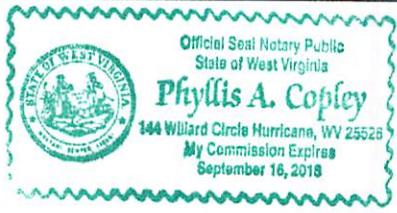
Coal Lessee with Declaration
(c) Name None
Address _____

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

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JAN 29 2016

Subscribed and sworn before me this 29th day of January the year of 2016
Phyllis A. Copley Notary Public

My Commission Expires September 16, 2018
Form WW-9

WV Department of
Environmental Protection

3901776P

Rev. 02/01

API Number 47-039-01776
Operator's Well No. 809092 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 Right Fork of Slack Branch Quadrangle Quick, WV 7.5'
Elevation 1,226' County Kanawha District Elk

Description of anticipated Pit Waste: Plugging Returns/Cement

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

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*

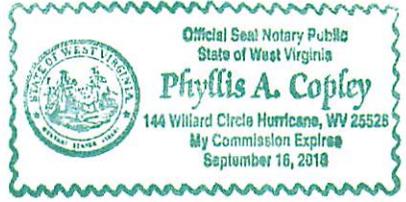
Company Official (Typed Name) David Gocke

Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 29th day of January, 2016.

Phyllis A. Copley Notary Public.

My Commission Expires September 16, 2018

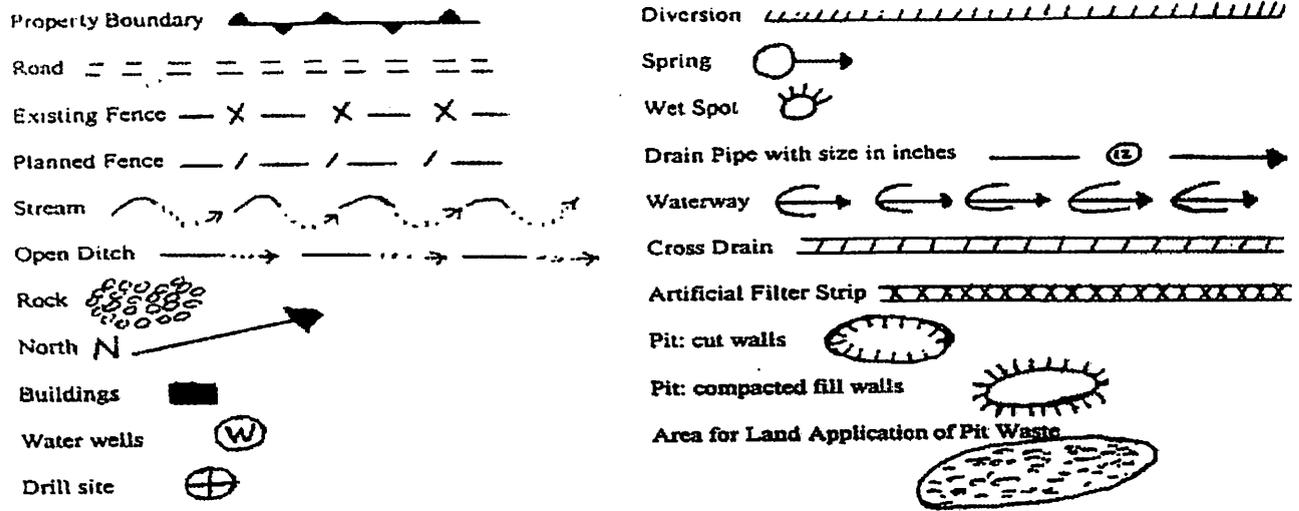


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Attachment #1

API #: 47-039-01776
Operator's Well No. 809092 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 Tons/acre (500 lbs minimum)

Mulch Weed Free Straw 2 Tons/acre

Seed Mixtures

October 1st to April 30th		May 1st to September 30th	
Creeping Red Fescue	68.60%	Creeping Red Fescue	68.60%
Wheat	14.76%	Wheat	17.18%
Annual Ryegrass	9.80%	Annual Ryegrass	9.80%
Ladino Clover	3.21%	Ladino Clover	4.97%

Total seeding will be 50 lbs/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

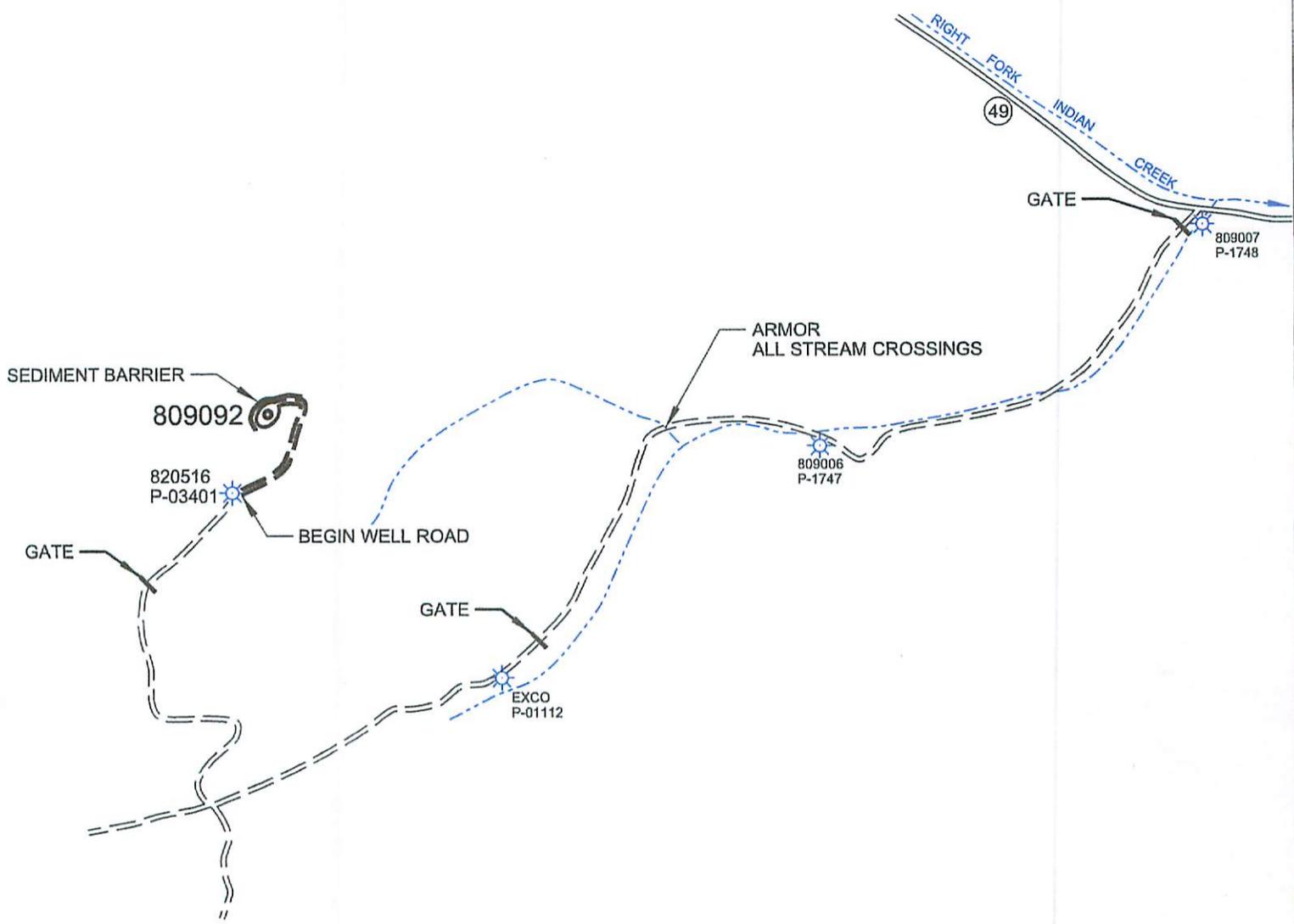
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39101776P

CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM WELL LOCATION 809092

API 47-039-01776



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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.

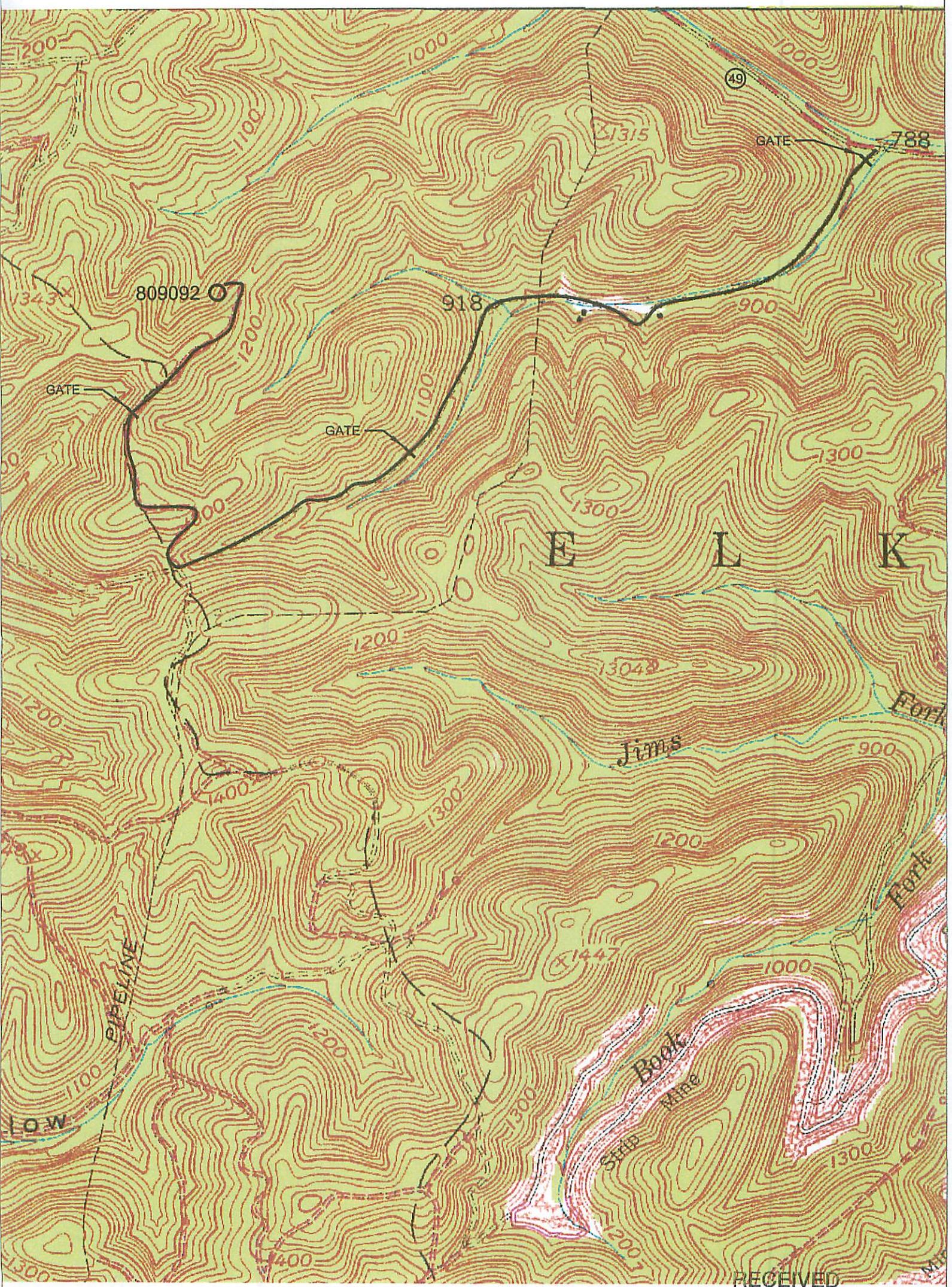
Permanent seeding: See Attachment #1.

3901776 P

CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND WELL LOCATION 809092

API 47-039-01776



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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

WV Department of
Environmental Protection

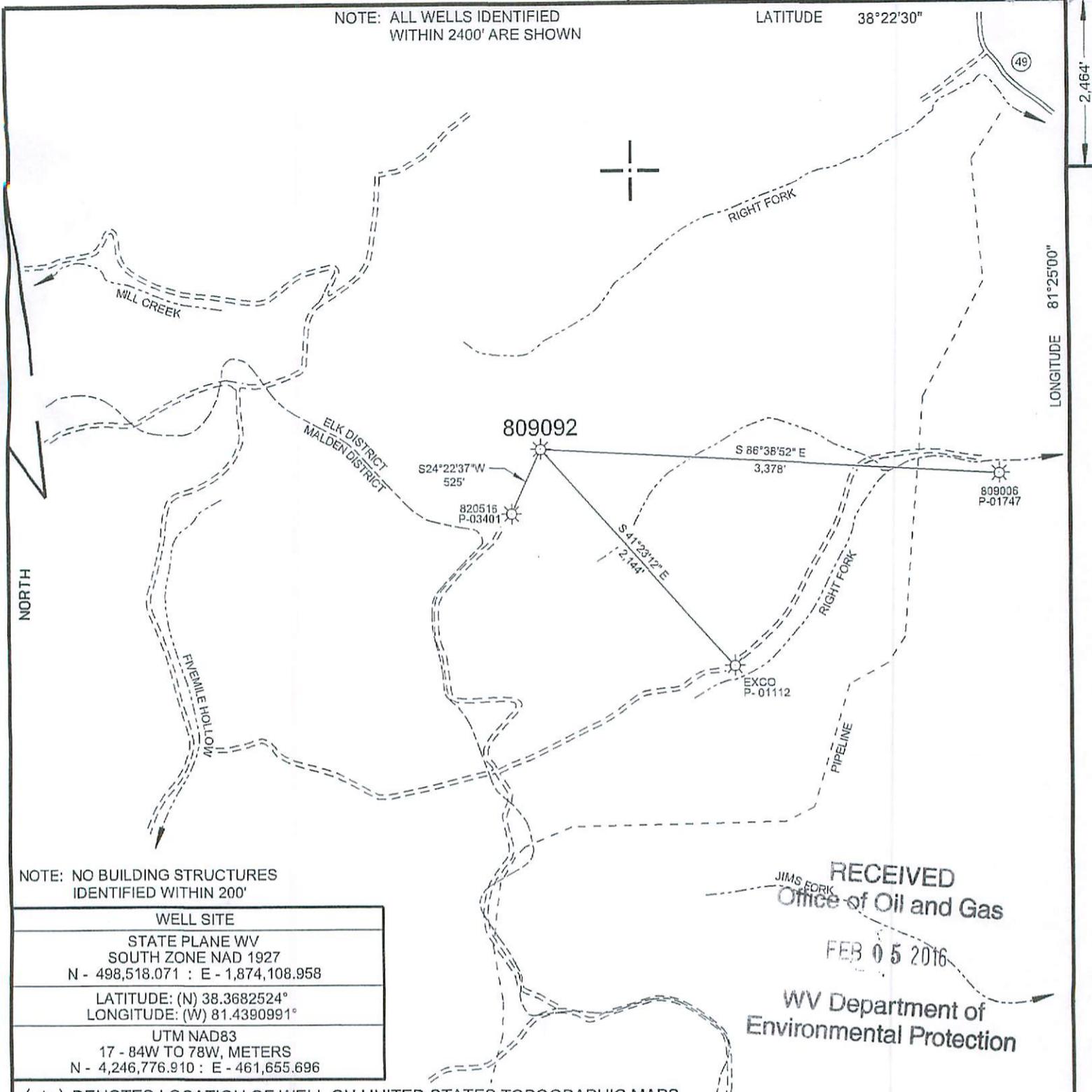
NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 38°22'30"

6,442' 3901776 P

LONGITUDE 81°25'00"

2,464'



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

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WV Department of Environmental Protection

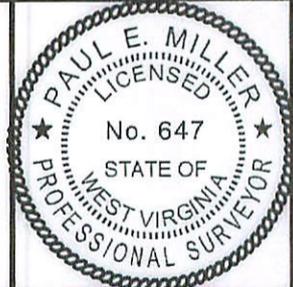
WELL SITE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 498,518.071 : E - 1,874,108.958	
LATITUDE: (N) 38.3682524° LONGITUDE: (W) 81.4390991°	
UTM NAD83 17 - 84W TO 78W, METERS N - 4,246,776.910 : E - 461,655.696	

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

FILE NO.	809092 P&A.DGN
DRAWING NO.	809092 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 21, 2016
OPERATOR'S WELL NO. 809092
API WELL NO. 47 039 01776 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1,226' WATER SHED RIGHT FORK OF SLACK BRANCH
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE QUICK, WV 7.5'

SURFACE OWNER THE HAMILTON CORP. & JOHN D. SMALLRIDGE ACREAGE 2.675
OIL & GAS ROYALTY OWNER FEE LAND LEASE ACREAGE 2.675
LEASE NO. _____

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 _____ 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

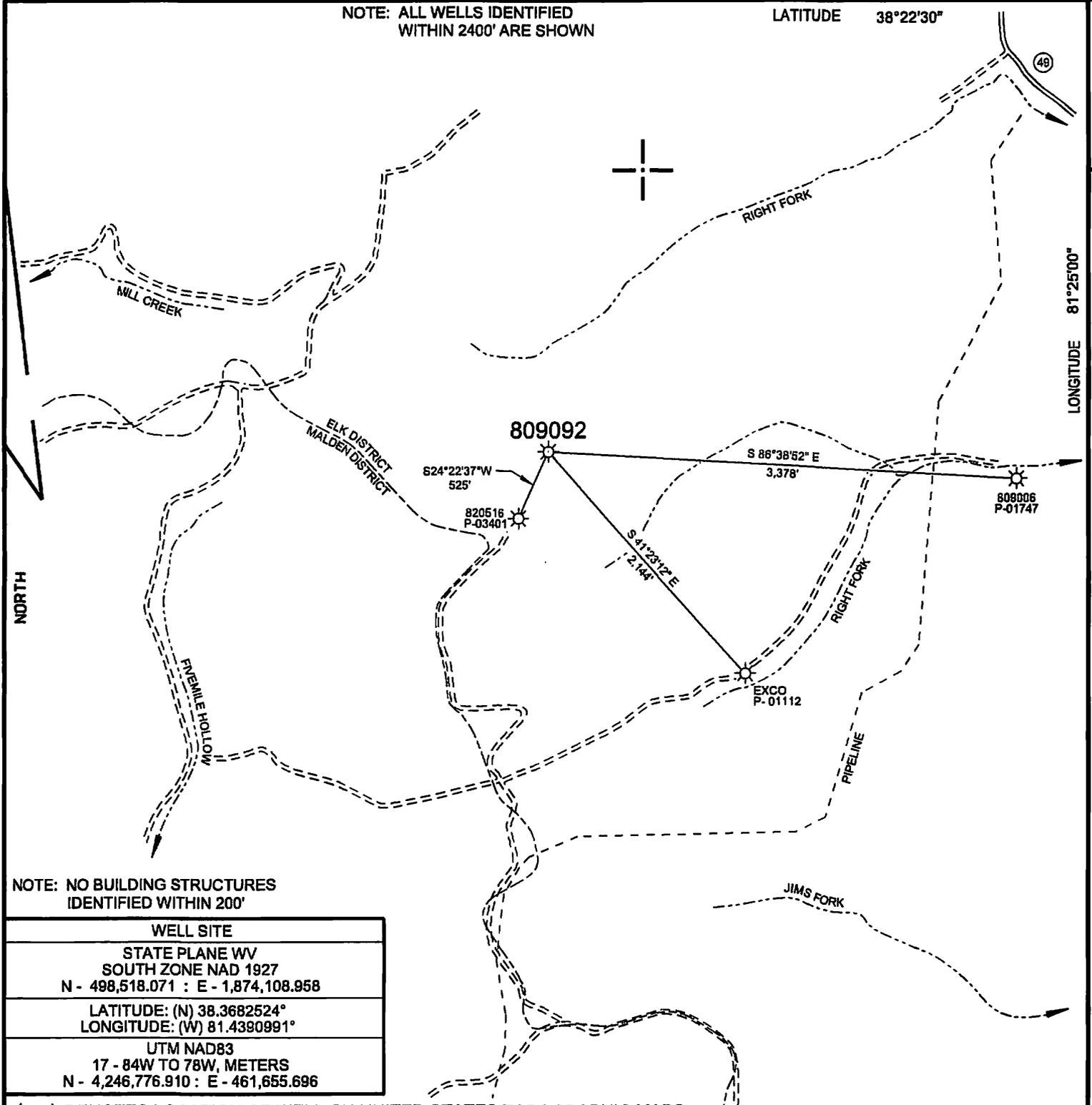
NOTE: ALL WELLS IDENTIFIED
WITHIN 2400' ARE SHOWN

LATITUDE 38°22'30"

6,442'

2,464'

LONGITUDE 81°25'00"



NOTE: NO BUILDING STRUCTURES
IDENTIFIED WITHIN 200'

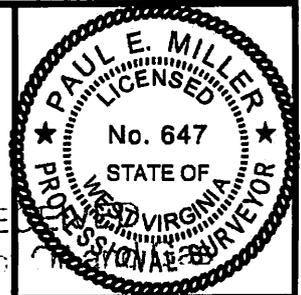
WELL SITE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 498,518.071 : E - 1,874,108.958	
LATITUDE: (N) 38.3682524° LONGITUDE: (W) 81.4390991°	
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO.	809092 P&A.DGN
DRAWING NO.	809092 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.E. L.L.S. 647



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION



DATE JAN 29 2016
OPERATOR'S WELL NO. 808092
API WELL NO. 47-039-01776-P
STATE 47 COUNTY 039 PERMIT 01776-P

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

LOCATION: ELEVATION 1,228' WATER SHED RIGHT FORK OF SLACK BRANCH
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE QUICK, WV 7.5'

SURFACE OWNER THE HAMILTON CORP. & JOHN D. SMALLRIDGE ACREAGE 2.675
OIL & GAS ROYALTY OWNER FEE LAND LEASE ACREAGE 2.675
LEASE NO. _____

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 _____ ESTIMATED DEPTH _____
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT JESSICA GREATHOUSE
ADDRESS P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0486 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME

PERMIT