



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

May 20, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5900493, 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: 808192 (8192)
Farm Name: TCO MIN TR 14
API Well Number: 47-5900493
Permit Type: Plugging
Date Issued: 05/20/2014

Promoting a healthy environment.

05/23/2014

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.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

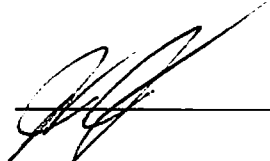
- 4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 1542' Watershed West Fork of Twelvepole Creek
District Harvey County Mingo Quadrangle Myrtle, WV 7.5'
- 6) Well Operator Chesapeake Appalachia, L.L.C. 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 Name Jeremy James
Address P. O. Box 147
Ona, WV 25545
- 9) Plugging Contractor Name _____
Address _____

1kk

10) Work Order: The work order for the manner of plugging this well is as follows:

(SEE ATTACHED PLUGGING PROCEDURE)

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector 

Date 3-24-14

Received **05/23/2014**

APR 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

808192 P&A PROCEDURE

- 1) Prepare road and location, MIRU Service Rig
- 2) Pull 1 1/2" tubing, swab if possible
- 3) Attempt to pull 3 1/2" 3 1/2 x 5 1/2 x 16"
 - A) If successful:
 - a) RIH with tools to check TD at approximately 3620'
 - b) Run W.S. to 3600', load hole with gel, pull W.S. to 2900' KEEP IN MIND TD WAS 4041'
 - c) Spot 200' cement plug 2900'-2700', pull W.S. to 2200'
 - d) Spot 200' cement plug 2200'-2000', pull W.S.
 - e) Proceed to step #4
 - B) If unsuccessful:
 - a) RIH with tools to check TD at approximately ~~3620'~~ (TD WAS 4041')
 - b) Rip holes at approximately 3330', 3300', 2850', 2820'
 - c) Run W.S. to 3600', load hole with gel, pull W.S. to 3350'
 - d) Spot 100' cement plug 3350'-3250', pull W.S. to 2850'
 - e) Spot 100' cement plug 2850'-2750', pull W.S.
 - f) Cut 3 1/2" at free-point (approximately 2200') and pull
 - g) Run W.S. to 2200', load hole with gel
 - h) Spot 200' cement plug 2200'-2000', pull W.S.
 - i) Proceed to step #4
- 4) RIH with tools to check TOC (If top of plug is not above 2050' then re-set plug)
- 5) Cut 5 1/2" at free-point (approximately 1400') and pull
- 6) Run W.S. to 1420', load hole with gel
- 7) Spot 150' cement plug 1400'-1250', pull W.S. FRESH WATER / ~~PLUG~~ SALT WATER PLUG
- 8) Attempt to pull 8 5/8" casing
 - A) If successful:
 - a) Run W.S. to 800', load hole with gel



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Office of Oil and Gas
WV Dept. of Environmental Protection

808192 P&A Procedure

Page 2 of 2

- b) Spot 100' cement plug 800'-700', pull W.S. to 500;
- c) Spot 100' cement plug 500'-400', pull W.S.
- d) Proceed to step #9
- B) If unsuccessful:
 - a) Rip holes in 8 5/8" at approximately 490' and 460', run W.S. to 810'
 - b) Spot 100' cement plug 810'-710', pull W.S. to 500' (W.S. SLOW)
 - c) Spot 100' cement plug 500'-400', pull W.S.
 - d) Cut 8 5/8" at free-point (approximately 200') and pull
 - e) Proceed to step #9
- 9) Pull or run W.S. to 200'
- 10) Spot 200' cement plug 200' – surface
- 11) Pull W.S. and top off with cement
- 12) Erect monument and reclaim as prescribed by law



Received

05/23/2014

APR 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

B-1

Quadrangle Holden

WELL RECORD

Permit No. MIN-493

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Co.
Address P.O. Box 1273; Charleston 25, W. Va.
Farm United Fuel Gas Co. Min. Tr. #1 Acres 779.60
Location (waters) West Fork of 12 Pole Creek
Well No. 8192 Elev. 1542.28
District Harvey County Mingo
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 10-24-56
Drilling completed 2-9-57
Date Shot 2-12-57 From 2812 To 4041
With 7800# Gelatin
Open Flow 3/10ths Water in 5 1/2" Inch
 /10ths Merc. in Inch
Volume 540,000 Cu. Ft.
Rock Pressure 235 lbs. 48 hrs.
Oil 475 bbls., 1st 24 hrs.
Fresh water 1380 feet feet
Salt water feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18			<u>Comb. Hookwall & Anchor</u>
13			Size of
10 <u>3/4</u>		<u>19'</u>	<u>3 1/2" x 5 1/2" x 16"</u>
<u>8 1/2 x 5/8</u>		<u>760</u>	Depth set
6 1/2			<u>2434'</u>
<u>5 3/4 x 1/2</u>		<u>2068</u>	Perf. top
3 <u>1/2</u>		<u>3630</u>	Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	8	Show gas	760'	
Sand			8	74			
Blue Slate			74	84	Water	1380'	2 bailers per hour
Sand			84	148			
Black Slate			148	156	Hole reduced at	1869'	to 6-3/4"
Sand			156	351			
Slate			351	360	Gas	2166'	7/10 W 1" 28 M
Lime			360	405			
Slate			405	461	Gas	2827-2839'	12/10 W 2" 146 M
Sand			461	471			
Slate			471	590	Gas	2869'	18/10 W 2" 179 M
Lime			590	615			
Slate			615	701	Gas	3805-3815'	21/10 W 2" 193 M
Sand			701	1390			
Slate			1390	1405			
Sand			1405	1910	Test before acidized	6/10 W 1" 26 M	
Lime			1910	1928	Acidized 1-14-57 with	2000 gallon 15% acid	
Slate			1928	1933	Test 1 hour after acidized	6/10 W 2" 103 M	
Lime			1933	1979	Open 1-15-57 for 2 hours	- test 6/10 W 2" 103 M	
Pencil Cave			1979	1993			
Big Lime			1993	2172			
Injun			2172	2266			
Slate & Shells			2266	2384	Test before shot	21/10 W 2" 193 M	
Sand			2384	2460	Shot 2-12-57 with	7800# Gelatin from	
Slate & Shells			2460	2772	<u>2812-4041'</u>		
Brown Shale			2772	2812	Test 1 hour after shot	21/10 W 5 1/2"	
Berea			2812	2849	1,156		
Brown Shale			2849	2882	Test 18 hours after shot	3/10 W 5 1/2" 17#	
Slate & Shells			2882	2900	437 M		
Brown Shale			2900	2930			Big Lime - 103 M
Shale & Shells			2930	3703	FINAL OPEN FLOW -	540 M-Br. Shale - 437 M	
Brown Shale			3703	3815	48 Hr. R.P. 235# casing		
Black Lime			3815	3854	48 Hr. R.P. 475# tubing.		
Dark Brown Shale			3854	3868			
Black Lime			3868	3906			
Brown Shale			3906	4026	Shut in 3-15-57 in	3 1/2" tubing.	
White Slate			4026	4041			
Total Depth			<u>4041'</u>		Permit No. -	Mingo -493	



05/23/2014

Permit No. MIN-493

WELL RECORD

Oil or Gas Well Gas
(KIND)

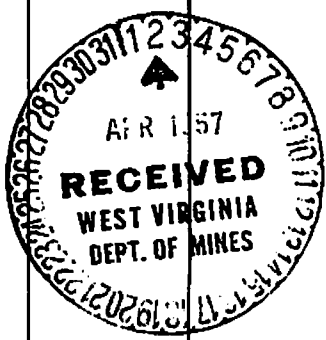
Company United Fuel Gas Co.
 Address P.O. Box 1273; Charleston 25, W. Va.
 Farm United Fuel Gas Co. Min. Tr. #14 Acres 779.60
 Location (waters) West Fork of 12 Pole Creek
 Well No. 8192 Elev. 1542.28
 District Harvey County Mingo
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by United Fuel Gas Co.
 Address Charleston, W. Va.
 Drilling commenced 10-24-56
 Drilling completed 2-9-57
 Date Shot 2-12-57 From 2812 To 4041
 With 7800# Gelatin
 Open Flow 3/10ths Water in 5 1/2" Inch
 _____/10ths Merc. in _____ Inch
 Volume 540,000 Cu. Ft.
 Rock Pressure 235 lbs. 48 hrs.
475 lbs. 48 hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water 1380 feet _____ feet
 Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Comb. Hookwall & Anchor
18			Size of _____
10 <u>3/4</u>		<u>19'</u>	<u>3 1/2" x 5 1/2" x 16"</u>
<u>8 1/2 5/8</u>		<u>760</u>	Depth set _____
6%			<u>2434'</u>
<u>5 3/8 1/2</u>		<u>2068</u>	Perf. top _____
<u>8 1/2</u>		<u>3630</u>	Perf. bottom _____
2			Perf. top _____
Liners Used			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	8	Show gas	760'	
Sand			8	74			
Blue Slate			74	84	Water	1380'	2 bailers per hour
Sand			84	148			
Black Slate			148	156	Hole reduced at	1869'	to 6-3/4"
Sand			156	351			
Slate			351	360	Gas	2166'	7/10 W 1" 28 M
Lime			360	405			
Slate			405	461	Gas	2827-2839'	12/10 W 2" 146 M
Sand			461	471			
Slate			471	590	Gas	2869'	18/10 W 2" 179 M
Lime			590	615			
Slate			615	701	Gas	3805-3815'	21/10 W 2" 193 M
Sand			701	1390			
Slate			1390	1405			
Sand			1405	1910	Test before acidized	6/10 W 1" 26 M	
Lime			1910	1928	Acidized 1-14-57 with	2000 gallon 15% ac	
Slate			1928	1933	Test 1 hour after acidized	6/10 W 2" 103 M	
Lime			1933	1979	Open 1-15-57 for 2 hours - test	6/10 W 2" 103 M	
Pencil Cave			1979	1993			
Big Lime			1993	2172			
Injun			2172	2266			
Slate & Shells			2266	2384	Test before shot	21/10 W 2" 193 M	
Sand			2384	2460	Shot 2-12-57 with	7800# Gelatin from	
Slate & Shells			2460	2772	2812-4041'		
Brown Shale			2772	2812	Test 1 hour after shot	21/10 W 5 1/2"	
Berea			2812	2849	1,156		
Brown Shale			2849	2882	Test 18 hours after shot	3/10 W 5 1/2" 17#	
Slate & Shells			2882	2900	437 M		
Brown Shale			2900	2930			
Shale & Shells			2930	3703			
Brown Shale			3703	4215	FINAL OPEN FLOW -	540 M - Br. Shale -	437 M

Received
 MAR 24 2014
 Office of Oil and Gas
 WV Dept. of Environmental Protection



185/28/2014

Permit No. MIN-493

WELL RECORD

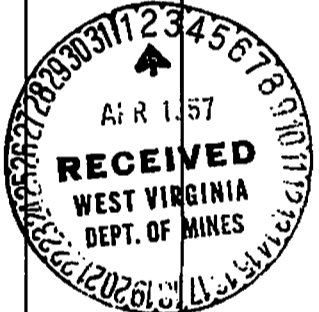
Oil or Gas Well Gas
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 Farm United Fuel Gas Co. Min. Tr. #14 Acres 779.60
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 Date Shot 2-12-57 From 2812 To 4041
 With 7800# Gelatin
 Open Flow 3/10ths Water in 5 1/2" Inch
 /10ths Merc. in _____ Inch
 Volume 540,000 Cu. Ft.
 Rock Pressure 235 lbs. 48 hrs.
475 lbs. 48 hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water 1380 feet
 Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			Comb. Hookwall & Anchor
10 3/4		19'	Size of
8 5/8		760	3 1/2" x 5 1/2" x 16"
6"			Depth set
5 1/2"		2068	2434'
8 1/2"		3630	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	8	Show gas	760'	
Sand			8	74			
Blue Slate			74	84	Water	1380'	2 bailers per hour
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Lime			360	405			
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Slate			1390	1405			
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Lime			1910	1928	Acidized 1-14-57 with	2000 gallon 15% aci	
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Brown Shale			2900	2930			Big Lime - 103 M
Shale & Shells			2930	3703	FINAL OPEN FLOW -	540 M - Br. Shale - 437 M	
Brown Shale			3703	3815			



05/23/2014

1) Date: 3/18/2014

2) Operator's Well Number 808192

3) API Well No.: 47 - 059 - 00493

STATE OF WEST VIRGINIA
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:	5) (a) Coal Operator
(a) Name <u>Elizabeth A. & Stephen H. Romans, ETAL</u> ✓	Name <u>New Eagle Mining</u> ✓
Address <u>HC 70, Box 997</u> <u>Dingus, WV 25671</u>	Address <u>P. O. Box 16429</u> <u>Bristol, VA 24209</u>
(b) Name _____	(b) Coal Owner with Declaration
Address _____	Name <u>Pocahontas Land Corporation</u> ✓
	Address <u>800 Princeton AVE</u> <u>Bluefield, WV 24701</u>
	(c) Coal Lessee
	Name <u>Laurel Creek Company</u> ✓
	Address <u>P. O. Box 16429</u> <u>Bristol, VA 24209</u>
6) Inspector <u>Jeremy James</u>	Coal Lessee with Declaration
Address <u>P. O. Box 147</u>	Name _____
<u>Ona, WV 25545</u>	Address _____
Telephone <u>(304) 951-2596</u>	

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 this 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 this 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.

Received

MAR 24 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Well Operator Chesapeake Appalachia, L.L.C.
 By: *David Stumbo* - David Stumbo
 Its: Production Superintendent- Devonian, Appalachian South BU, Northern Div.
 Address P. O. Box 18496
Oklahoma City, OK 73154-0496
 Telephone (606) 298-3400

Subscribed and sworn before me this 19th day of March, 2014

Sherric L Moore Notary Public

My Commission Expires 5/24/2017

05/23/2014

5900493P

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PRESTONSBURG KY
MAR 21 2014
USPS - 41653

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Sent To: Elizabeth A. & Stephen H. Romans, ETAL
 HC 70, Box 997
 Dingus, WV 25671

Street, Apt. No. or PO Box No.
 City, State, ZIP: Plug & Abandon Notification Well 808192

PS Form 3800, August 2006 See Reverse for Instructions

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PRESTONSBURG KY
MAR 21 2014
USPS - 41653

Postmark Here

Sent To: New Eagle Mining
 P. O. Box 16429
 Bristol, VA 24209

Street, Apt. No. or PO Box No.
 City, State, ZIP: Plug & Abandon Notification Well 808192

PS Form 3800, August 2006 See Reverse for Instructions

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MAR 24 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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PRESTONSBURG KY
MAR 21 2014
USPS - 41653

Postmark Here

Sent To: Laurel Creek Company
 P. O. Box 16429
 Bristol, VA 24209

Street, Apt. No. or PO Box No.
 City, State, ZIP: Plug & Abandon Notification Well 808192

PS Form 3800, August 2006 See Reverse for Instructions

05/23/2014

SURFACE OWNER WAIVER

Operator's Well Number API 808192 47-059-00493

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

Elizabeth Romano Signature Date 3-24-14 Name By Its Date Signature Date

RECEIVED 05/23/2014
Office of Oil and Gas
MAR 28 2014
WV Department of Environmental Protection

5960493A

7011 0470 0002 7116 9264

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Total Postage and Fees	\$

PRESTONSBURG KY
MAR 25 2014
 Postmark
USPS - 41658

Sent to	Pocahontas Land Corporation
Street, Apt or PO Box	800 Princeton AVE
City, State	Bluefield, VA 24209
	P&A Notification Well 808192

PS Form 3800, June 2011

Received

MAR 25 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

05/23/2014

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 West Fork of Twelvepole Creek Quadrangle Myrtle, WV 7.5'

Elevation 1542' County Mingo District Harvey

Description of anticipated Pit Waste: Plugging returns

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
- Other (Explain _____)
- Swabbing
- Plugging

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 

Company Official (Typed Name) David Stumbo

Company Official Title Production Superintendent, Devonian District, Appalachian South BU, Northern Div.

Subscribed and sworn before me this 19th day of March, 2014

 Notary Public

My commission expires 5/24/2017

Received

MAR 24 2014

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1/8 Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer (10-20-20 or equivalent) _____ lbs/acre (500 lbs minimum)

Mulch 250 lb _____ Tons/acre

Seed Mixtures

Seed Type	Area I		Seed Type	Area II	
		lbs/acre			lbs/acre
Cereal Rye		17.5 / 1/8			

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

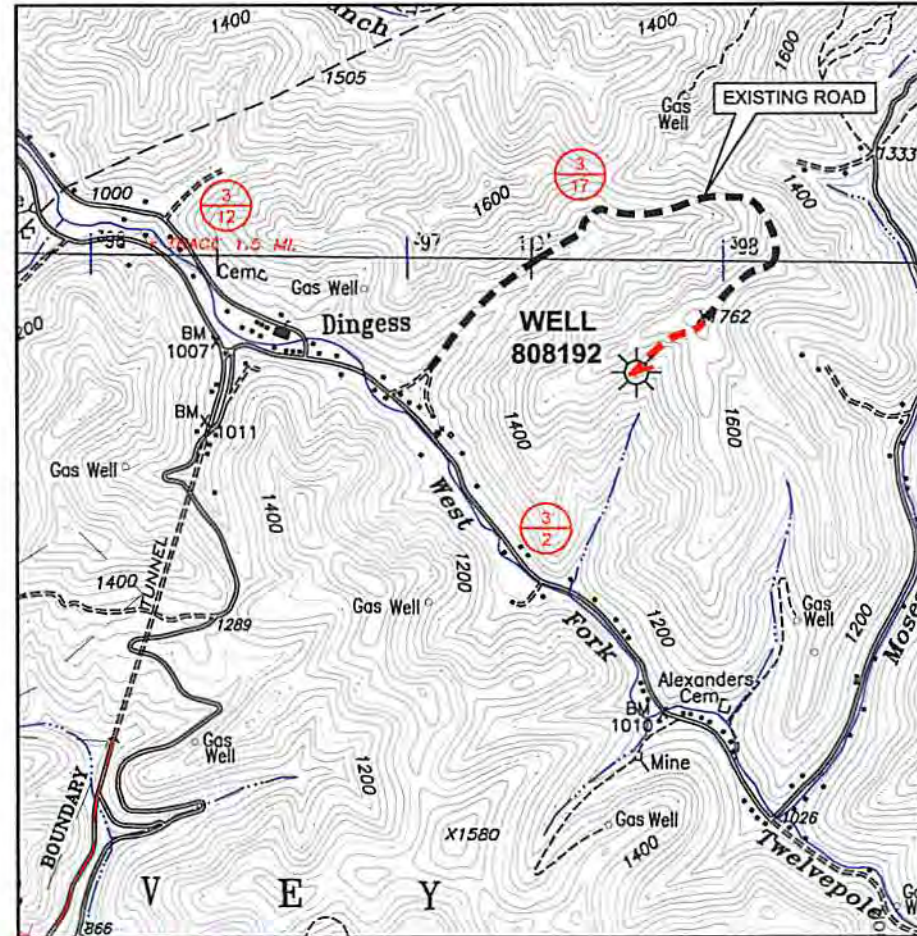
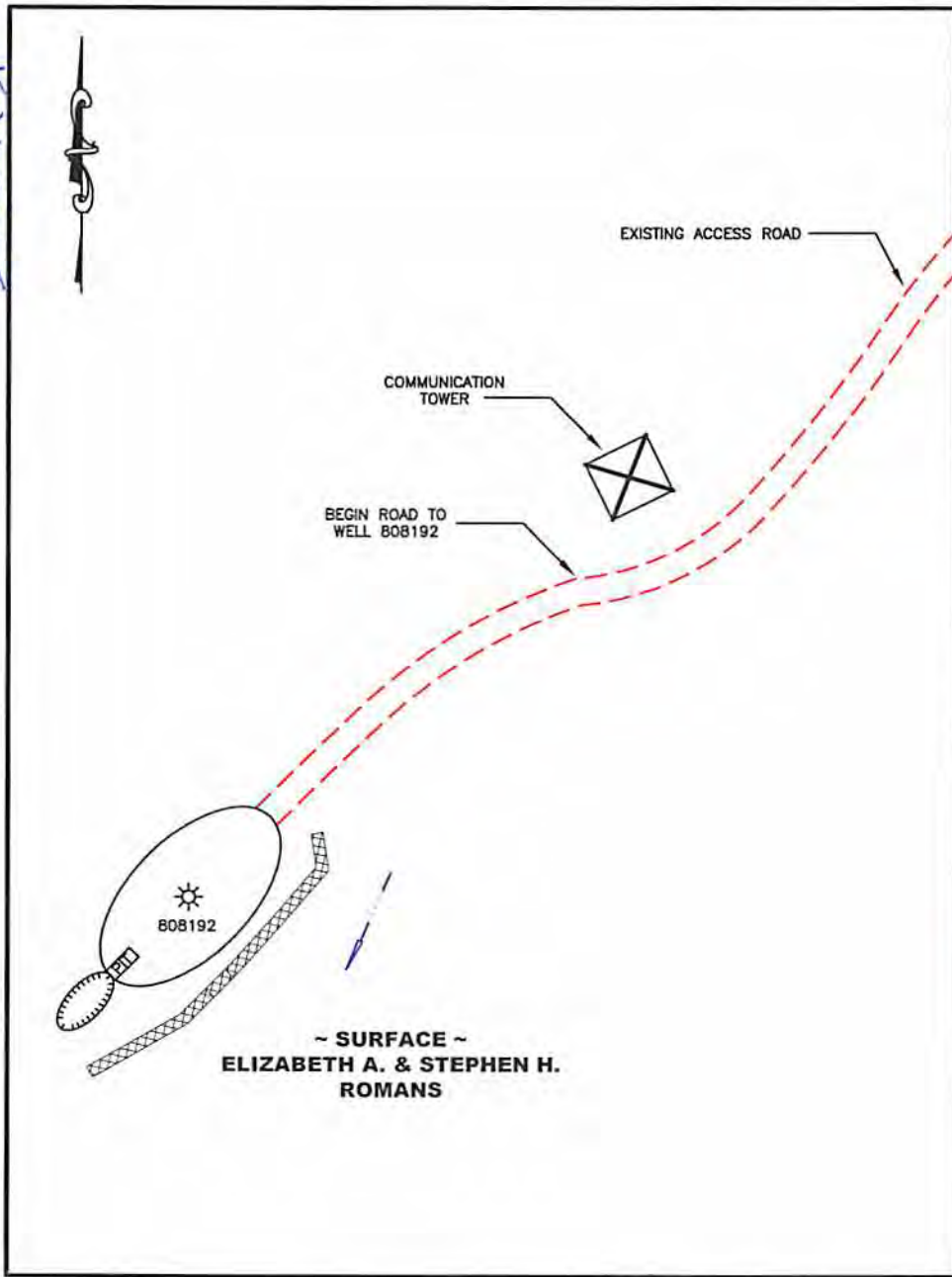
Title: inspector OOG Date: 3-24-14

Field Reviewed? Yes No

Received 05/23/2014

APR 17 2014

59-00-4439



TRACE/MYRTLE WV 7.5' ACCESS ROAD DETAIL

Received
 MAR 24 2014
 Office of Oil and Gas
 WV Dept. of Environmental Protection

NOTE: SURFACE OWNERS SHOWN ON THIS DRAWING ARE TAKEN FROM LOCAL COUNTY ASSESSORS TAX MAPS AND SHOULD NOT BE RELIED UPON FOR SECURING RIGHTS OF WAY OR DAMAGE NEGOTIATIONS.

Drawing Legend

Property Boundary	—•—•—•—•—	Diversion	
Road (808192)	--- ---	Spring	○
Existing Fence	x-x-x-x	Wet Spot	○
Planned Fence	- - - -	Existing Drain Pipe with size in inches	12
Stream	~~~~~	Waterway	←←←←←
Open Ditch	—•—•—•—•—	Cross Drain	
Rock	○	Artificial Filter Strip	XXXXX
North	↑	Pit: cut walls	○
Buildings	■	Pit: Compacted fill walls	○
Water Wells	⊕	Areas for Land Application of Pit Waste	○
Drill Site	⊕	Temporary berm	
Road (Existing)	--- ---	Brush Barrier	
		Straw Bales	

General Notes

THIS DRAWING IS A SCHEMATIC REPRESENTATION OF THE PROPOSED 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.

TREES AND SLASH WILL BE CLEARED AS NECESSARY BEFORE ANY PROPOSED ROAD, SITE, OR PIPELINE CONSTRUCTION BEGINS. IF SUFFICIENT RESIDUE MATERIALS ARE AVAILABLE FROM CLEARING, THIS MATERIAL WILL BE WINDROWED BELOW THE ANTICIPATED FILL OUTSLOPE(S) TO INTERCEPT AND RETAIN SEDIMENT FROM DISTURBED AREAS. ALL MARKETABLE TIMBER WILL BE CUT AND STACKED IN AREAS ADJACENT TO OPERATIONS.

ALL CULVERT PIPES WILL BE A MINIMUM OF 12" IN DIAMETER. ALL CULVERT PIPES INSTALLED WILL BE ACCOMPANIED BY AN ENTRANCE SUMP WITH DIMENSIONS NO LESS THAN 3 FT. (WIDTH) X 3 FT. (LENGTH) X 4 FT. (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 AND SEDIMENTATION.

TEMPORARY SEEDING: SEE ATTACHMENT #1.

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.

AFTER THE DRILLING AND COMPLETION PROCESS, CROSS DRAINS, BROAD BASED DIPS, WATER BARS AND DIVERSION DITCHES WILL BE AN INTEGRAL PART OF THIS RECLAMATION PROCESS AND SHALL BE INSTALLED AND SPACED IN ACCORDANCE WITH THE AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE EROSION SEDIMENT CONTROL FIELD MANUAL.

PERMANENT SEEDING: SEE ATTACHMENT #1

TEMPORARY SEEDING TO BE APPLIED TO ALL SLOPES AFTER CONSTRUCTION.

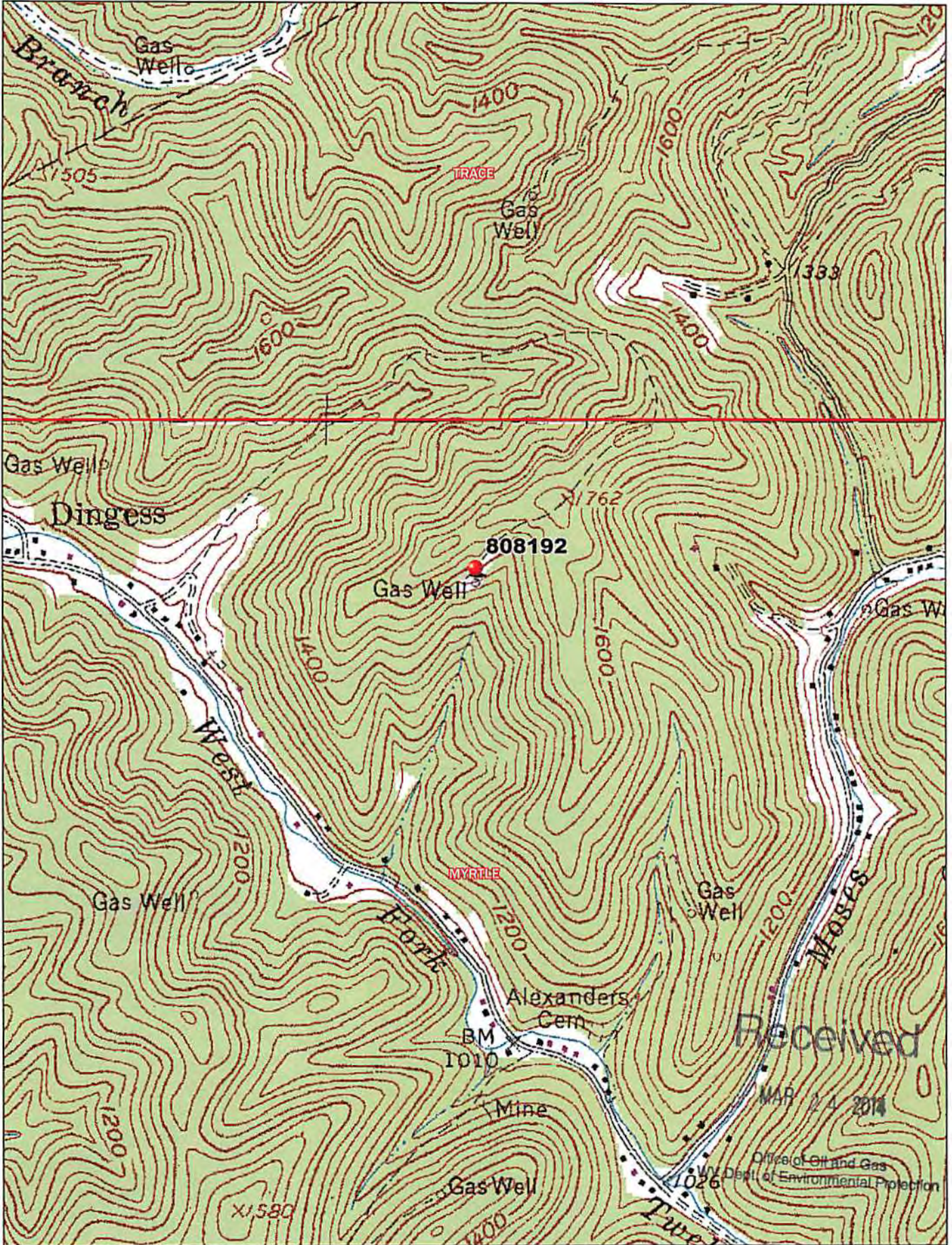


CONSTRUCTION & RECLAMATION SITE PLAN
PROPOSED PLUG AND ABANDONMENT
WELL 808192

Located Near The Community Of Dingus
In The Harvey District Of Mingo county
West Virginia.

DATE: 3-17-14
DRAWN BY: JDH

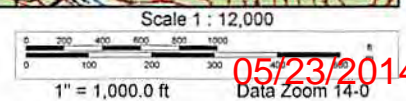
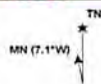
SCALE: Not To Scale
808192 P&A Rec Plan.dwg



Data use subject to license.

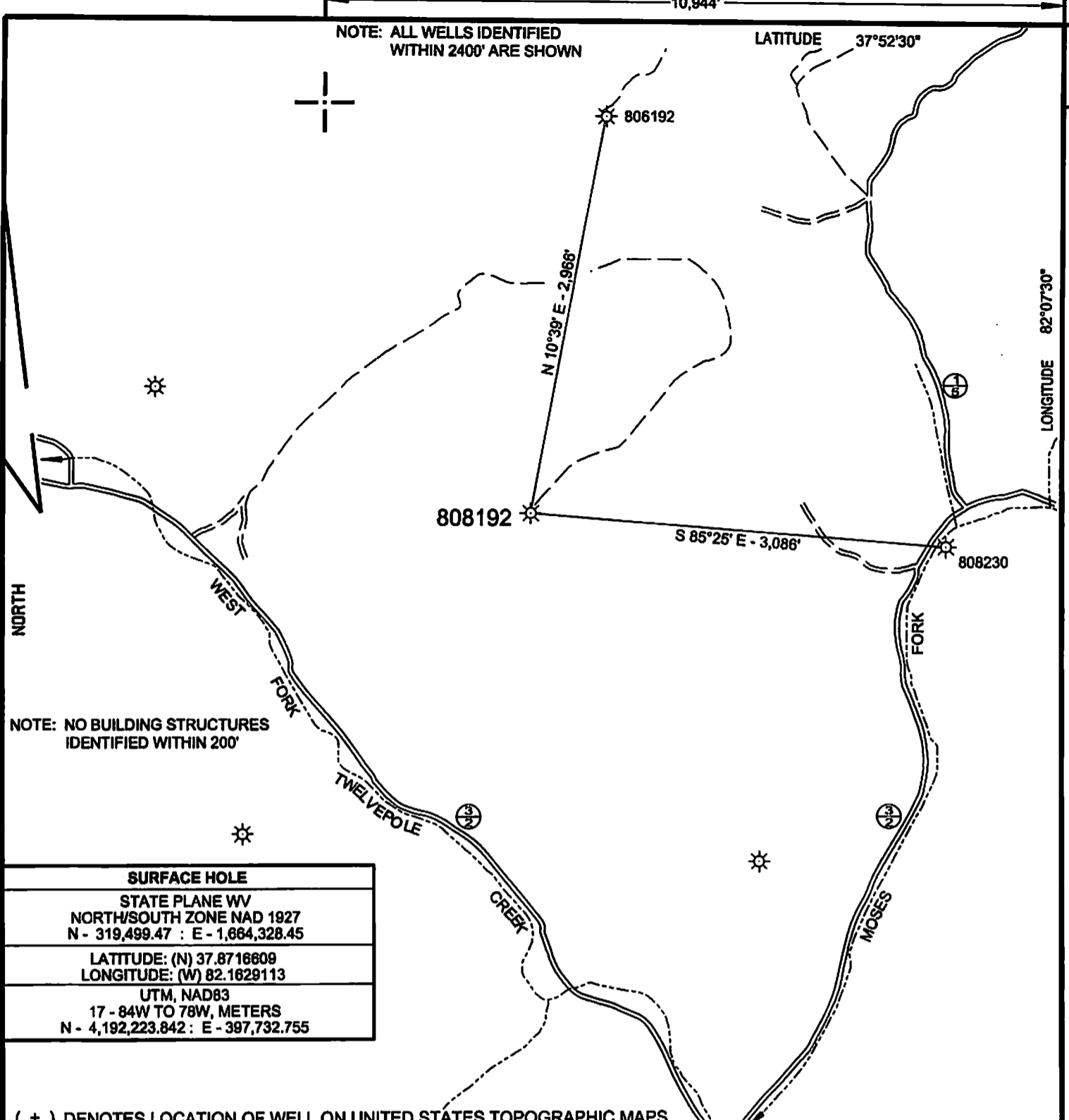
© DeLorme, XMap® 7.

www.delorme.com



NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 37°52'30"



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

SURFACE HOLE	
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 319,499.47 : E - 1,664,328.45	
LATITUDE: (N) 37.8716609 LONGITUDE: (W) 82.1629113	
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,192,223.842 : E - 397,732.755	

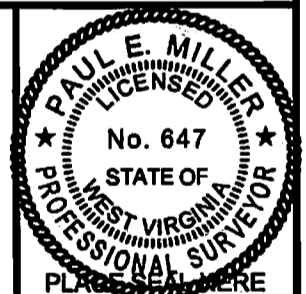
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 808192.DGN
 DRAWING NO. 8192 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 FEBRUARY 12, 20 14
 OPERATOR'S WELL NO. 808192
 API WELL NO.

47 059 00493 P
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1542' WATER SHED WEST FORK OF TWELVEPOLE CREEK
 DISTRICT HARVEY COUNTY MINGO
 QUADRANGLE MYRTLE, WV 7.5'

SURFACE OWNER ELIZABETH A. & STEPHEN H. ROMANS ACREAGE 80
 OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA, L.L.C. LEASE ACREAGE _____
 LEASE NO. _____ FEE O&G _____

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 BROWN SHALE ESTIMATED DEPTH _____
 WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLESPIE
 ADDRESS PO BOX 6070 CHARLESTON, WV 25362 ADDRESS SAME

FORM WW-6

COUNTY NAME PERMIT

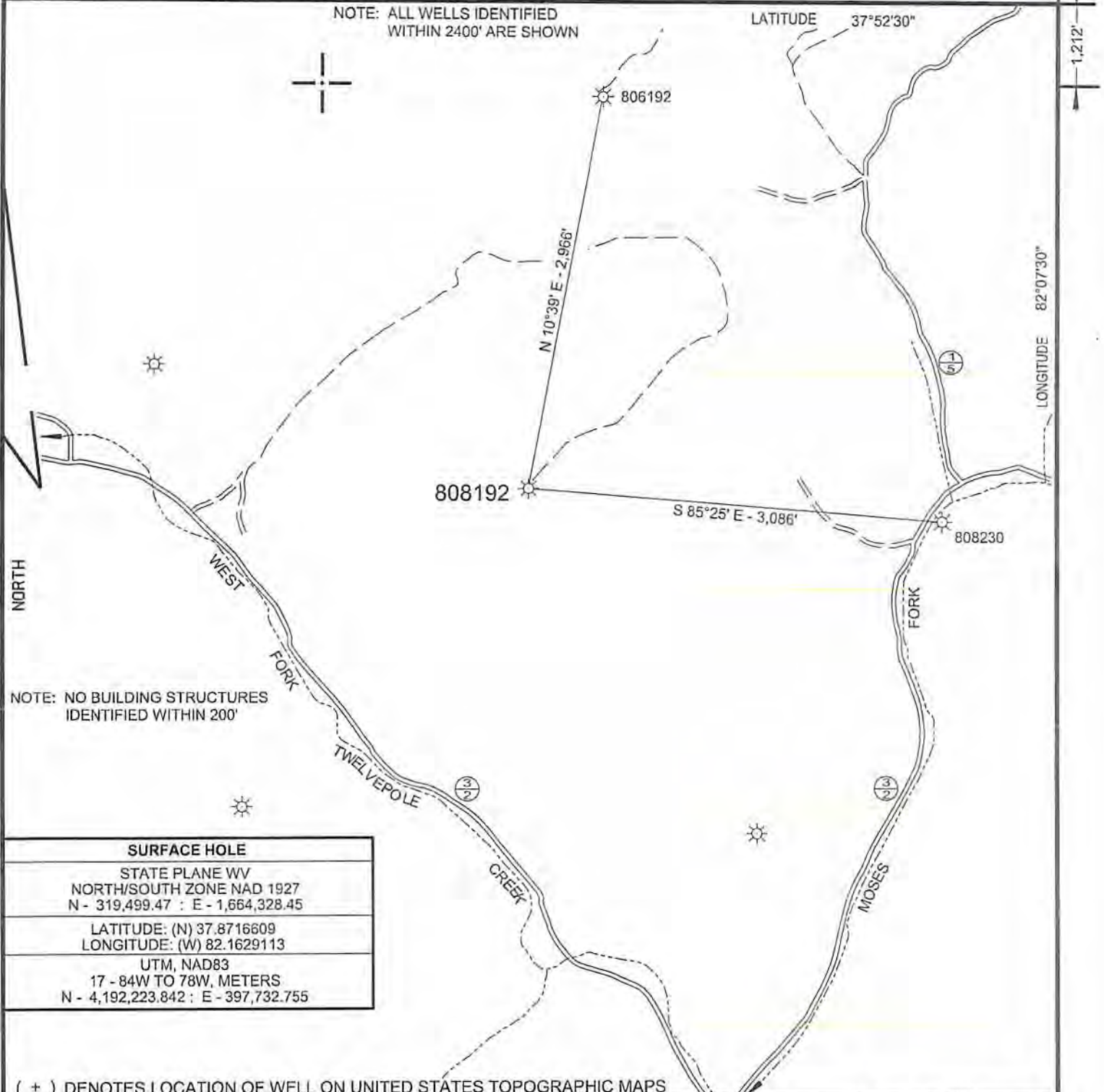
05/23/2014

5900493P

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 37°52'30"

LONGITUDE 82°07'30"



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

SURFACE HOLE	
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 319,499.47 : E - 1,664,328.45	
LATITUDE: (N) 37.8716609 LONGITUDE: (W) 82.1629113	
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,192,223.842 : E - 397,732.755	

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

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 DRAWING NO. 8192 P&A
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 200
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(SIGNED) Paul E. Miller
 R.P.E. _____ L.L.S. 647



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



DATE FEBRUARY 12, 2014
 OPERATOR'S WELL NO. 808192
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1542' WATER SHED WEST FORK OF TWELVEPOLE CREEK
 DISTRICT HARVEY COUNTY MINGO
 QUADRANGLE MYRTLE, WV 7.5'

SURFACE OWNER ELIZABETH A. & STEPHEN H. ROMANS ACREAGE 80
 OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA, L.L.C. LEASE ACREAGE _____
 LEASE NO. _____ FEE O&G _____

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 BROWN SHALE ESTIMATED DEPTH _____
 WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLESPIE
 ADDRESS PO BOX 6070 CHARLESTON, WV 25362 ADDRESS SAME

COUNTY NAME PERMIT

05/23/2014

FORM WV-6



590044389
ck 5139109
10000

CERTIFIED MAIL

March 21, 2014

Mr. James Martin
Division of Environmental Protection
Office of Oil and Gas - Permitting
601 57th Street SE
Charleston, WV 25304

Dear Mr. Martin:

Chesapeake Appalachia, L.L.C. proposes to plug and abandon Well 808192, API No. 47-059-00493. Please find attached a check in the amount of \$100.00 for the permit fee and the permit application to plug and abandon.

If you have any questions, please call our Honey Branch office (606) 298-3400.

Sincerely,

A handwritten signature in black ink that reads "David Stumbo" with a stylized flourish at the end.

David Stumbo
Production Superintendent

Enclosure: Permit Application Package to Plug and Abandon

C: Jeremy James - Inspector
P. O. Box 147
Ona, WV 25545

Received

MAR 24 2014

Office of Oil and Gas
WV Dept. of Environmental Protection