



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

August 07, 2013

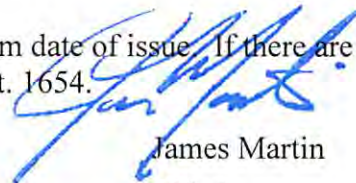
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8504476, 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: GRAY A-862 (910862)
Farm Name: BROWN, RICHARD & ELIZABET
API Well Number: 47-8504476
Permit Type: Plugging
Date Issued: 08/07/2013

WW-4B
Rev. 2/01

1) Date July 6, 2013
2) Operator's
Well No. 910862
3) API Well No. 47-085 - 04476

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 ___ or Underground storage ___) Deep ___ / Shallow X

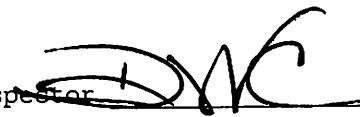
5) Location: Elevation 1364' Watershed Sugar Run
District Union County Ritchie Quadrangle Oxford

6) Well Operator Chesapeake Appalachia, LLC 7) Designated Agent Eric B. Gillespie
Address P.O. Box 1300 Address P.O. Box 6070
Jane Lew, WV 26378 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name David Cowan
Address 1597 Devil Hole Road
Harrisville, WV 26362
9) Plugging Contractor Name R & J Well Service
Address P.O. Box 37
Hueysville, KY 41640

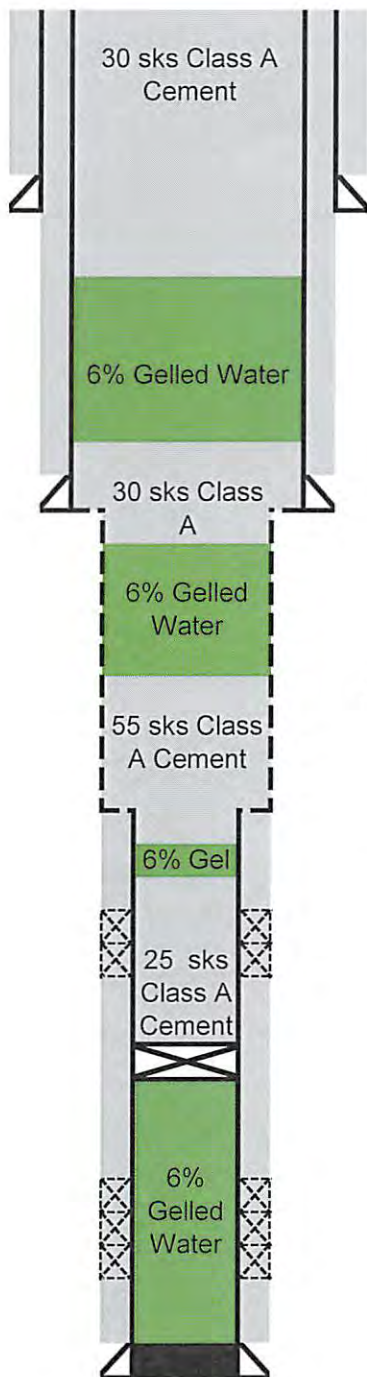
10) Work Order: The work order for the manner of plugging this well is as follows:
MIRU construction equipment to BR&L (remove any tanks, separators, well lines, meter runs, exc.). MIRU service rig & needed BOP equipment. NOTE: Blow down well to pit or tank.
TOOH strapping rods and 1 1/2" tubing to surface. TIH strapping 1 1/2" tubing to an estimated TD of 2,390 +/- . NOTE: If plugs is not at PBDT, SD and contact Engineer.
Load hole with 38 bbls of 6% gelled water or break surface with circulation. Pump 25 sks of Class A cement (330' cement plug), flush tubing with 1.4 bbls 6% gelled water .
TOOH with 1 1/2" tubing to surface. SD & WOC for 8 hours. RIH w/ sandline tools & tag plug @ 2,060' +/- . If plug is not at 2,060', SD and contact the Chesapeake engineer for recalculation.
RU Wireline and Shoot 4 1/2" casing at 1,500' +/- . Pull and laydown casing. TIH strapping 1 1/2" tubing to an estimated TD of 1,550 +/- . Pump 55 sks of Class A cement (240' cement plug),
flush tubing with 1 bbls 6% gelled water. TOOH with 1 1/2" tubing to surface. SD & WOC for 8 hours. RIH w/ sandline tools & tag plug @ 1,310' +/- . If plug is not at 1,310', SD and
contact the Chesapeake engineer for recalculation. TIH strapping 1 1/2" tubing to an estimated TD of 645' +/- . Pump 42 bbl of 6% gelled water or break circulation. . Pump 30 sks of
Class A cement (100' cement plug). Flush tubing with 0.5 bbls of 6 %gelled water. TOOH with 1 1/2" tubing to surface. SD & WOC for 8 hours. RIH w/ sandline tools & tag plug @ 545' +/- . If plug
is not at 545', SD and contact the Chesapeake engineer for recalculation. TOOH with 2 3/8" tubing to 100' . . Pump 30 sks of Class A cement (100' cement plug). TOOH w/ tubing. 25. Top
off well with required Class A cement as needed. Install a 36 inch casing monument w/ 2" vent. Install a Aluminum plat monument with ALL required WV dates and WV API number. ROMO all

service equipment providers and reclaim location to WV State requirements.
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 7-24-13

Well ID Gray 7 - 910862

Friday, June 28, 2013



Plug from Surface to 100'

16" csg set @ 20'

8 5/8" csg set @ 595'

Elevation Plug from 1,310' to 1,420'

Cut 4 1/2" 1,500'

4 1/2" TOC 1,790'

8 Holes 2,122' to 2,137'

Bridge Plug 2,390'

8 Holes 2,475' to 2,481'

12 Holes 2,495' to 2,509'

TD @ 2,573'
4 1/2" csg set @ 2,664'



Cement
Perforated Zone
6% Gel
SBP



08/09/2013

WELL DATA

Location (Surface)	Lat. Long.
TD	2,844'
PBTD	2,390'
Marker Joint	NA

CASING AND TUBULAR DATA

STRING	SIZE	WEIGHT/GRADE	DEPTH	THREAD	TOC
Surface	8 5/8"	NA #	595'	J-55	Surface
Production	4 1/2"	10.5 #	2,664'	J-55	1,790'
Tubing	1 1/2"	NA	2,178'	8 Round	Hanging

CAPACITIES

SIZE	WEIGHT	CAPACITY (GAL/FT.)	CAPACITY (BBL/FT.)
8 5/8"	NA #	2.7374	0.0652
4 1/2"	10.5#	0.6699	0.0159
1 1/2"	NA #	0.02770	0.00066
7 7/8"	OH	2.5302	0.0602

SIZE	WEIGHT	CAPACITY (CU FT/FT.)	CAPACITY (BBL/FT.)
8 5/8"	NA #	0.3576	0.0652
4 1/2"	10.5#	0.0895	0.0895
1 1/2"	4.7 #	0.00370	0.00066
7 7/8"	OH	0.3382	0.0602

WELLHEAD EQUIPMENT

COMPONENT	SIZE & RATING
Manufacturer	Larkin Screw On
Tubing Spool	
Casing Spool	
Bradenhead	

DRIVING DIRECTIONS

Interstate 79 to Clarksburg, turn west on Rt 50, go 32 miles to Sunnyside exit, turn left, go 1.8 mile, turn left on Oxford road (21), go 5.8 miles, turn left onto Sugar Run (19) at Oxford post office, go 1.0 mile, turn right onto location road. Well is on top of hill.

SCOPE OF OPERATION

1. Safety is the highest priority. Control costs and avoid unnecessary expenditures.
2. TOOH strapping rods and 1 1/2" tubing
3. TIH with 1 1/2" tubing to estimated TD of 2,390'
4. Pump required cement and gel plugs per WV DEP state requirements
5. Plat a well monument with WV State API number

08/09/2013

PROCEDURE

1. **Contact the WV State Inspector 48 hours prior to operations.**
2. **Safety is the highest priority.** Hold wellsite safety meetings prior to each significant operation. Review critical parameters and objectives as well as emergency action plans.
3. MIRU construction equipment to BR&L (remove any tanks, separators, well lines, meter runs, exc.)
4. MIRU service rig & needed BOP equipment. **NOTE: Blow down well to pit or tank.**
5. TOOH strapping rods and 1 1/2" tubing to surface.
6. TIH strapping 1 1/2" tubing to an estimated TD of 2,390 +/- **NOTE: If plugs is not at PBTD, SD and contact Engineer.**
7. Load hole with 38 bbls of 6% gelled water or break surface with circulation.
8. Pump 25 sks of Class A cement (330' cement plug), flush tubing with 1.4 bbls 6% gelled water
9. TOOH with 1 1/2" tubing to surface. **SD & WOC for 8 hours.**
10. RIH w/ sandline tools & tag plug @ 2,060' +/- . If plug is not at 2,060', SD and contact the Chesapeake engineer for recalculation.
11. RU Wireline and Shoot 4 1/2" casing at 1,500' +/- . Pull and laydown casing.
12. TIH strapping 1 1/2" tubing to an estimated TD of 1,550 +/- .
13. Pump 55 sks of Class A cement (240' cement plug), flush tubing with 1 bbls 6% gelled water
14. TOOH with 1 1/2" tubing to surface. **SD & WOC for 8 hours.**
15. RIH w/ sandline tools & tag plug @ 1,310' +/- . If plug is not at 1,310', SD and contact the Chesapeake engineer for recalculation.
16. TIH strapping 1 1/2" tubing to an estimated TD of 645' +/- .
17. Pump 42 bbl of 6% gelled water or break circulation.
18. Pump 30 sks of Class A cement (100' cement plug). Flush tubing with 0.5 bbls of 6 %gelled water.
19. TOOH with 1 1/2" tubing to surface. **SD & WOC for 8 hours.**
20. RIH w/ sandline tools & tag plug @ 545' +/- . If plug is not at 545', SD and contact the Chesapeake engineer for recalculation.
21. TOOH with 2 3/8" tubing to 100'.
22. Pump 30 sks of Class A cement (100' cement plug). TOOH w/ tubing.
23. Top off well with required Class A cement as needed.
24. Install a 36 inch casing monument w/ 2" vent. Install a Aluminum plat monument with **ALL required WV dates and WV API number.**
25. RDMO all service equipment providers and reclaim location to WV State requirements.

08/09/2013

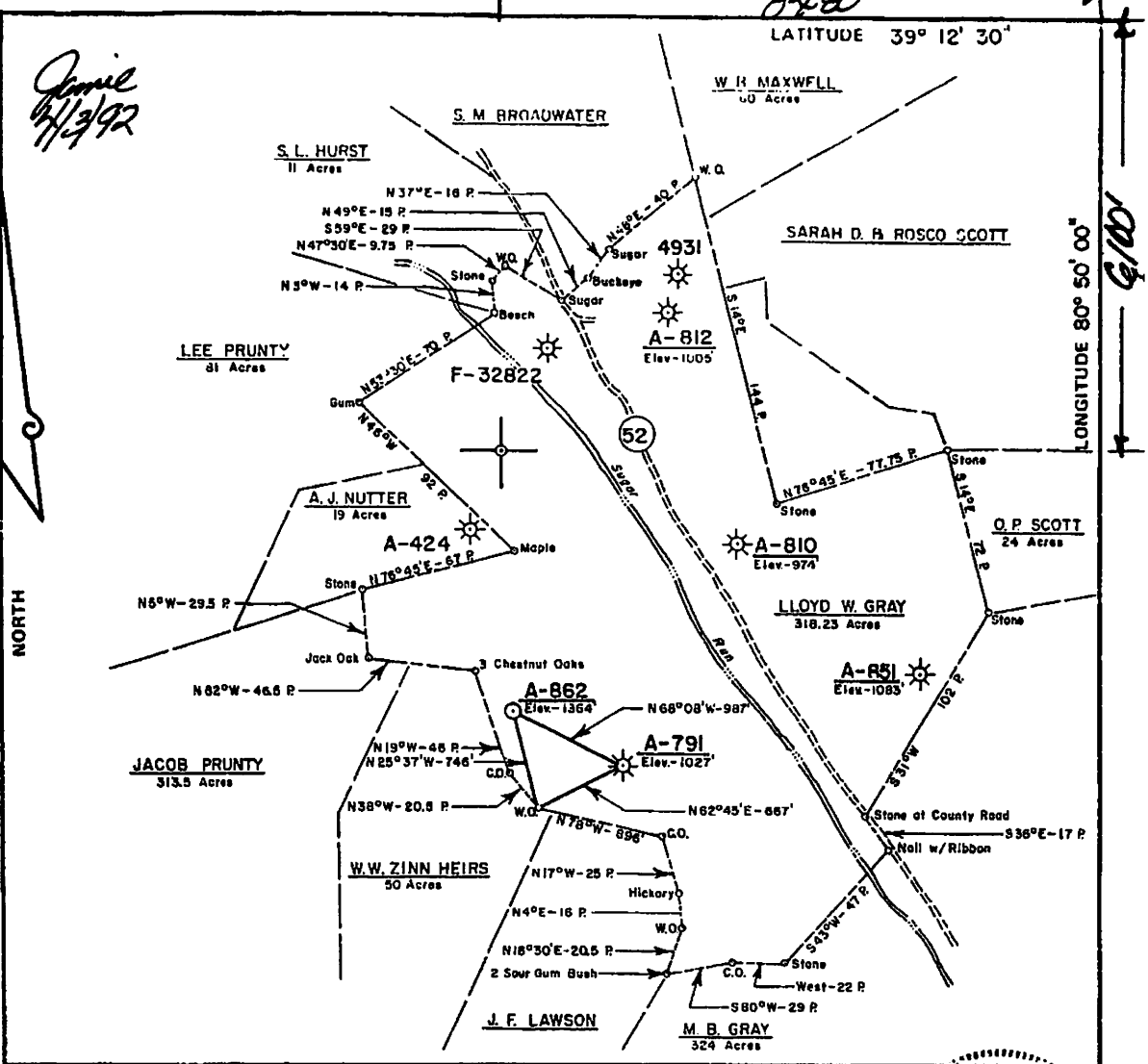
PERSONNEL / PHONE LIST

Central District Team

Asset Manager	Shawn Jackson	Office: (405) 935-6276 Mobile: (405) 365-9974
District Manager	Gary Gould	Office: (405) 935-4060 Mobile: (405) 249-4514
Operations Manager	Zack Arnold	Office: (304) 517-1416 ext 86028 Mobile: (304) 203-8059
Completion Superintendent	Chad Satterfield	Office: (304) 517-1416 ext 86062 Mobile: (304) 203-8059
Production Superintendent	Manny Johnson	Office: (740) 695-1623 ext 87804 Mobile: (304) 641-0085
Land Man	Randy Orsburn	Office: (304) 517-1416 ext 86020
WV State Inspector	David Cowan	Cell: (304) 389-3509

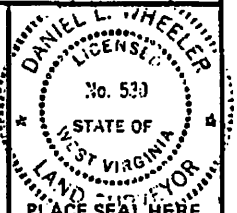
08/09/2013

850476A



FILE NO. 318
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 Part In 200
 PROVEN SOURCE OF ELEVATION A. L. & M. Co. Gas Well #A-791 Elev. 1027

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 MINES.
 (SIGNED) Daniel L. Wheeler
 R.P.E. _____ L.L.S. 530



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE December 3, 1979
 OPERATOR'S WELL NO. A-862
 API WELL NO. 47-085-4476-70c
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1364 WATER SHED Sugar Run
 DISTRICT Southwest & Union COUNTY PUTCHEE
 QUADRANGLE Oxford 7.5
 SURFACE OWNER J. F. Gray ACREAGE 91
 OIL & GAS ROYALTY OWNER Cleo C. Gray LEASE ACREAGE 318.23
 LEASE NO. 26
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATI. ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG Permanently Plug back from well
 TARGET FORMATION Weir Abandon ESTIMATED DEPTH 2,400'
 WELL OPERATOR Allaheeny Land & Mineral Co. DESIGNATED AGENT Marty L. Parri
 ADDRESS P.O. Box 1740 ADDRESS P.O. Box 1740
Clarksburg, W.Va. 25501 Clarksburg, W.Va. 25501

08/09/2013

8504476A

FORM 10-85
(Reverse)

FEB 13 1980

Date February 7, 1980

Operator's Well No. A-862
API Well No. 085-4476
State County Permit

DEPARTMENT OF MINES, OIL AND GAS DIVISION
WEST VIRGINIA

**OIL & GAS DIVISION
DEPT. OF MINES**

WELL MONITORING REPORT #7
OF
DRILLING, FRACURING AND COMPLETION OF PRODUCTION

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
(If "Gas", indicate underground storage feed shallow
LOCATION: Elevation: 1369' Township: Sugar Run
District: Union County: Ritchie Quadrangle: Oxford 7.5'

WELL OPERATOR: ALLEGHENY LAND & MINERAL CO. DECEASED AUNT: ALLEGHENY LAND & MINERAL CO.
Address: P.O. BOX 1797 Address: CLARKSBURG, W. VA. 26301

PERMITTED WORK: Drill Convert Well deeper Depth: Fracture or stimulate
Plug old formation Perforate new formation
Other physical change in well (specify) _____

PERMIT ISSUED ON December 10, 1979 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF TRY HOLES OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VEREAL PERMISSION OBTAINED) Name: K. Paul Goodnight
Address: Smithville W. Va. 26178

GEOLOGICAL TARGET FORMATION: Well _____ Depth 2400 feet
Depth of completed well: 2825 feet Notar: Chalk Loris _____
water strata depth: Fresh _____ feet salt _____ feet
Coal seam depth: _____ feet Is coal belt shown in the area? _____
Work was commenced: January 10, 1980 and completed: January 15, 1980

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE IN FEET		PERCENT FILL-UP OR SACKS (cubic feet)	REMARKS
	Size	Grade	Weight per ft	Use	For drilling	Loss (in ft)		
Conductor								Kind
Fresh water	<u>8-5/8"</u>			<input checked="" type="checkbox"/>	<u>595'</u>	<u>595'</u>		<u>Cemented to surface</u>
Coal								Sizes
Intermediate								
Production	<u>4 1/2"</u>			<input checked="" type="checkbox"/>	<u>2664'</u>	<u>2664'</u>		<u>Depth 290'</u>
Tubing	<u>1 3/4"</u>			<input checked="" type="checkbox"/>	<u>2484'</u>	<u>2484'</u>		Perforations
Liners								Top Bottom

OPEN FLOW DATA

Producing formation: Well Pay zone depth: 2464-2592 feet
Gas: Initial open flow: _____ Mcf/d GOR: Initial open flow: _____ Bbl/d
Final open flow: 985 Mcf/d Final open flow: 1 Bbl/day
Time of open flow between initial and final tests: _____ hours
Static rock pressure: 1275# (at surface measurement) after 48 hours shut in
[If applicable due to multiple completion:]
Second producing formation: _____ Pay zone depth: _____ feet
Gas: Initial open flow: _____ Mcf/d GOR: 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: _____ (at surface measurement) after _____ hours shut in

Continue on reverse side

08/09/2013

WR-35
RECEIVED
Office of Oil & Gas
JUL 15 92
WV Division of
Environmental Protection

03-Apr-92
API # 47- 85-04476 F

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Reviewed TM6
Recorded _____

Well Operator's Report of Well Work

Well Name: GRAY, VELMA GASTON Operator Well No.: GRAY A-862

LOCATION: Elevation: 1364.00 Quadrangle: OXFORD

District: UNION County: RITCHIE
Latitude: 6100 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 8480 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: ALAMCO, INC.
200 W. MAIN ST., P.O. BOX 1740 | Casing | Used in | Left | Cement

CLARKSBURG, WV 26302-1740

Agent: MARTY L. PERRI

Inspector: SAMUEL HERSMAN
Permit Issued: 04/03/92
Well work Commenced: 04/07/92
Well work Completed: 04/15/92
Verbal Plugging
Permission granted on: -
Rotary N/A Cable N/A Rig
Total Depth (feet) 2396'
Fresh water depths (ft) 75'

Tubing & Size	Drilling	in Well	Fill Up Cu. Ft.
11 3/4"	30'	-	-
8 5/8"	595'	595'	To Surface
4 1/2"	2664'	2664'	To 1790'

Salt water depths (ft) NOT AVAILABLE

Is coal being mined in area (Y/N)? N
Coal Depths (ft): Not Available

OPEN FLOW DATA No Test

Producing formation Little Line Pay zone depth (ft) 2128'-2143'
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/
Final open flow - MCF/d Final open flow - Bbl/
Time of open flow between initial and final tests - Hour
Static rock Pressure - psig (surface pressure) after - Hour

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

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE 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: ALAMCO, INC.
By: [Signature] Richard R. Hoffman
Date: _____

RIT 4476 F

FORM 77-35
(Reverse)
[98-75]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Well was fractured January 28, 1980 by Dowell.

Perforations: 2475 - 2481' - 8 holes
2495 - 2509' - 12 "

WELL LOG

FORMATION	Color	Hard or Soft	37		Remarks Including indication of all fresh and salt water, coal, oil and gas
			Top Feet	Bottom Feet	
Soil			0	20	
Shale			20	150	
Sand & Shale			150	1064	
Salt Sand			1064	1104	
Sand & Shale			1104	1676	
Salt Sand			1676	1708	
Sand & Shale			1708	2126	
Little Lime			2126	2148	
Shale			2148	2166	
Big Lime			2166	2254	
Injun Sand			2254	2294	
Sand & Shale			2294	2464	
Weir Sand			2464	2592	
Shale			2592	2825	
Total depth				2825	(Driller)

(Attach separate sheets to complete as necessary)

Allegheny Land & Mineral Company
Well Operator
By Cleron Dawson
Its Supt.

NOTE: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

A-862

1. Ran GR-CCL log from 2407' KB to 1905' KB.
2. Set solid cast iron bridge plug @ 2396; KB to temporarily abandon the deeper zone.
3. Swabbed well dry down to 2300' KB.
4. Dumped 500 gal. 15% Hcl.
5. Perforated Little Lime formation with 6 shots from 2128' - 2143; KB.
6. Acidized Little Lime with 21,380 gallons of gel and acid.
7. Cleaned wellbore.
8. Installed tubing and rods.
9. Turned well into line.

TMM\010692.1-1

13507

WW-4A
Revised 6-07

1) Date: July 6, 2013
2) Operator's Well Number
910862
3) API Well No.: 47 - 085 - 04476

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	Richard & Elizabeth Brown	Name	
Address	RR 1 Box 108B West Union, WV 26456	Address	
(b) Name	Randall Russell	(b) Coal Owner(s) with Declaration	
Address	PO Box 162 Dudley, MA 01571	Name	Vicki D. Moore
(c) Name		Address	4555 Monte Drive Vandalia, OH 45377
Address		Name	
		Address	
6) Inspector	David Cowan	(c) Coal Lessee with Declaration	
Address	1597 Devil Hole Road Harrisville, WV 26362	Name	
Telephone	304-389-3509	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 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.

Well Operator Chesapeake Appalachia, LLC
 By: Dee Southall
 Its: Regulatory Analyst II
 Address P.O. Box 1300
 Jane Lew, WV 26378
 Telephone 304-517-1416 EXT. 86024

Subscribed and sworn before me this 9th day of July
Brittany R Woody
 My Commission Expires 11/27/22



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

08/09/2013

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, LLC OP Code 494477557

Watershed Sugar Run Quadrangle Oxford

Elevation 1364' County Ritchie District Union

Description of anticipated Pit Waste: Water from plugging process

Will a synthetic liner be used in the pit? yes

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0072539/2D0413175/2D0610306/2D0610317)
- Reuse (at API Number at next anticipated well, API# will be included on the WR34/&or permit addendum)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain flowback will be put in steel tanks and reused or taken to permitted disposal facility)

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 August 1, 2005, 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 *[Handwritten Signature]*

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Analyst II

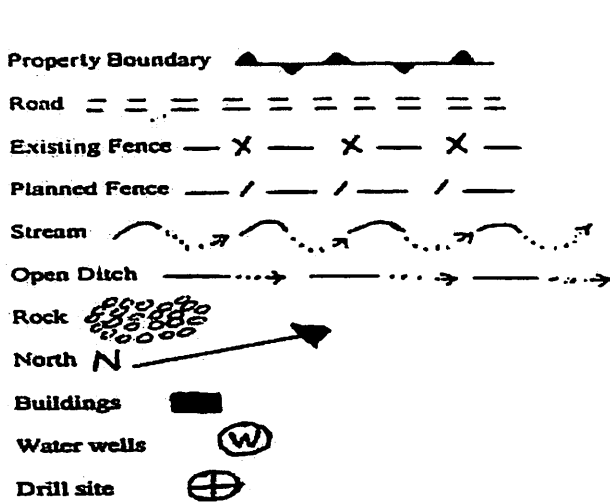
Subscribed and sworn before me this 9th day of July, 2013

[Handwritten Signature]

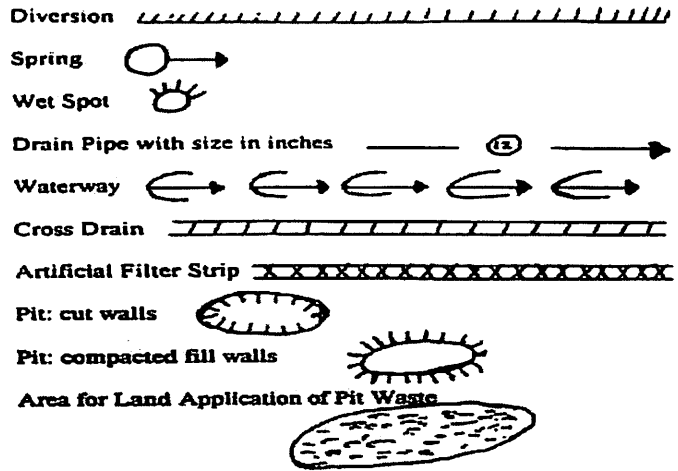
Notary Public



My commission expires 11/27/22



LEGEND



Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH 6.0

Lime as determined by pH test min. 2 _____ Tons/acre or to correct to pH 6.5

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

Mulch ^{Hay/Straw} _____ Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	20	Orchard Grass	20
Red Top	15	Red Top	15
White Clover	15	White Clover	15

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

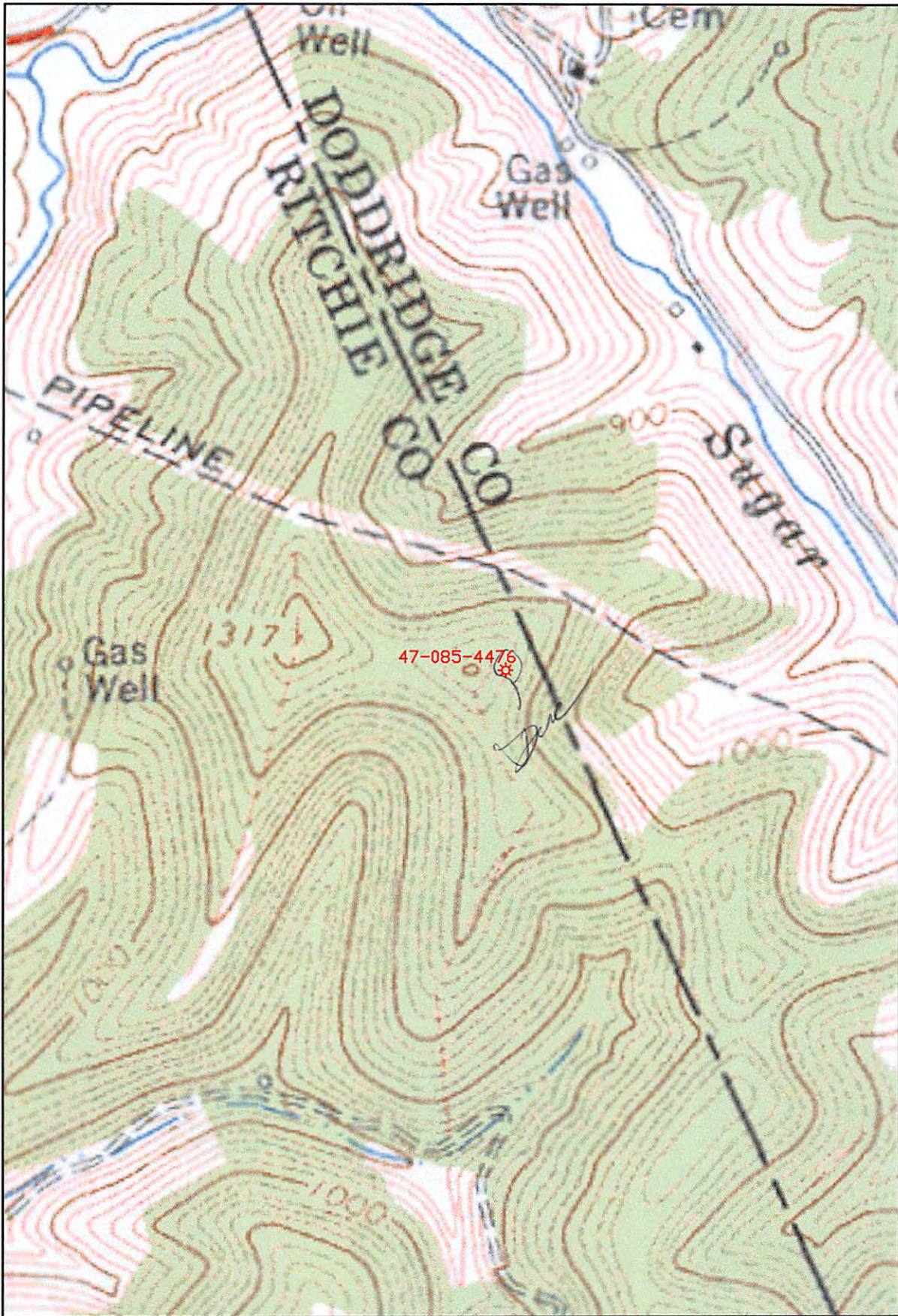
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Daniel Cannon
 Comments: Reclaim site to nature state

Title: Oil and Gas Inspector Date: 11-24-13

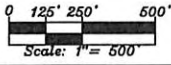
Field Reviewed? Yes No

8504476P



Well: A-862
 Permit #: 47-085-4476
 Quad: Oxford 7 1/2'
 District: Union
 County: Ritchie
 State: West Virginia

GEOGRAPHIC NAD 27
 Latitude: 39.191815
 Longitude: 80.863250
UTM NAD 83 (METERS)
 4338081.1 N
 511824.2 E



P.O. Box 18496 Oklahoma City, OK 73154-0496

08/09/2013

WW-7



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-085-04476 P

WELL NO.: 910862

FARM NAME: Gray, Velma Gaston

RESPONSIBLE PARTY NAME: Chesapeake Appalachia, LLC

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Oxford

SURFACE OWNER: Richard & Elizabeth Brown

ROYALTY OWNER: Vickie D. Moore

UTM GPS NORTHING: 4338081.1

UTM GPS EASTING: 511824.2

GPS ELEVATION: 1364'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ____: Post Processed Differential ____
Real-Time Differential ____

Mapping Grade GPS ____: Post Processed Differential ____
Real-Time Differential ____

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

Title

Date

7/15/13

Reg Analyst

08/09/2013

8504476P



Danielle Southall
Regulatory Analyst II

July 25, 2013

Check # 5048091
\$100.00

Mr. Jeff McLaughlin
WV Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

Re: Plugging Permit for well 910862 API #47-085-04476

Dear Jeff:

Enclosed please find a Plugging Permit Application for the above captioned well. This well is situated on in Union District, Ritchie County, West Virginia.

If you have any questions or require additional information, please do not hesitate to contact me at (304) 517-1416 ext. 86024.

Sincerely,

Chesapeake Appalachia, LLC


Dee Southall

Enclosures

RECEIVED
Office of Oil and Gas

JUL 26 2013

WV Department of
Environmental Protection

08/09/2013