

#### 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, 2015

## WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-4302056, 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 penalities 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: 4417

Farm Name: ADKINS, VIOLA

API Well Number: 47-4302056

Permit Type: Plugging

Date Issued: 02/23/2015

### **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.

4302056P.

Inspector's sheets

Signature sheets

1) Date:
2) Operation

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

1) Date: 11/12/2014
2) Operator's Well No. 804417 P&A
3) API Well No. 47-043-02056

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

CK 5215703

			OFFICE O	F OIL AND	SAS			10000
4)	Well Type: (Is Gas, Prod	Oil	TION FOR A PER Gas X round storage	Liquid injecti		507 Sch. 1	disposal Shallow	<u> </u>
5)	Location:	Elevation 682' District Union	Watershed County	Lincoln	Quadr	Mud River	Hager, WV	7.5'
6)	Well Operator Address	Chesapeake Appala P.O. Box 18496 Oklahoma City, OK		7) Designat Address		Jessica Grea P.O. Box 607 Charleston, V	0	
8)	Name Ralph Address 5539 Branc	nector to be notified a Triplett McClellan Highway chland, WV 25506		Name Address	P.O. Box 18 Oklahoma	e Appalachia 8496 City, OK 731		
10)	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

Apeple D. Triped

Date Nevember 25, 2014

Received
Office of Oil & Gas
DEC 0 3 2014

02/27/2015

API Number: 47-043-02056

#### 804417 P&A Procedure

TD WAS 2079

RPT 114

NOTE: 2" tubing is parted at 1690' and pulled

- 1) RIH with tools to confirm top of tubing at 1690'
- 2) Run W.S. to 1680', spot gel
- 3) Spot 200' cement plug 1680'-1480', pull W.S. to 1385'
- 4) Spot 100' cement plug 1385'-1285', pull W.S.
- 5) RIH with tools to check top of plug (If TOC is below 1310' then re-spot plug)
- 6) Cut 6 5/8" at free-point (approximately 650') and pull
- 7) Run W.S. to 650', spot gel
- 8) Spot 150' cement plug 650'-500', pull W.S. to 350'
- 9) Spot 100' cement plug 350'-250', pull W.S. to 150'
- 10) Spot 150' cement plug 150' surface
- 11) Pull W.S. and top off with cement
- 12) Set monument and reclaim as prescribed by law

GEL SPACER W/ MINIMUM 6% BENTONITE BY WEIGHT IN FRESH WATER SHALL BE PLACED BETWEEN EACH PLUG.

you my

WILL 804417 P+A

UNITED FUE	L GAS C	YNAHMO		API: 47-043-02056P
SERIAL WELL NO	1034726	**************************************	MA	P SQUARE 36-47
. RECORD OF WHILL No. 1 on the	OA	UP DHA PHIN	#ING	YEAY METONE SHOY
Viola Adkins Farm of 35 Acres	8122	USED 1H DHILLING	LEFY IN	3 of Water in 2 Inch
la Iaurel Hill Dinnict	16			of Merc. In
Lincoln County	13	l		Volume Book to Cu. ti.
Biold, State of West Va.	. 10	19	19	TEST AFTER SHOT
	8 1/4			14. of Water in 2 inch
Rig Co.asteroed 193	6 5/8	1335	1336	Othr.
Rig Completed 193	5 3/16			Volume 24,560 Cu. ft.
Drilling Commenced March 5th, 1928	4 7/8			Ruck Pressure
Drilling Completed April 9th, 1925	1			Date Shot May 2-1925
Drilling to cost per foot	3	1		Size of Torpedo . 80#
Contractor Is:	2		2081	Oll Plowed bals. 1st 24 hrs.
Address Owned by Superior Oil & Gas Oo		BHUY IN		Oll Pumped hbls. let 24 her.
Sold to United Fuel Gas Company	Date			
Diller's Name September 2nd, 19	302in		Tubing or Casing	Well abandoned and
	Sire of Pac	ker 2X.	6-6/8J.	Plugged 193
				Set at 1716'
	Int Perfe S	(c)	rom	
£1. 687B	2nd Per G. S	Slaversen I	(Sill-searant)	A CONTRACTOR OF THE CONTRACTOR

DRILLEN'S AECORD \*\*\*\*\* Coal 595 600 6 Salt Sand 660 1050-400 Slate-Lime Shells 1050 1245 195 Maxon Sand 1245 1295 50 Little Lime 1298 1323 28 Penoil Cave 1323 1327 4 Show of gas and oil at 14011 - 7/11/1 (67/17) Big Lime 1331 1523 192 Red Rook 1523 1555 32 Big Injun Sand 1855 1675 20 Lime Shells 1578 1750 175 2040 Berea Sand 2007 17 Gas 2042~2056 Slate (Total depth) 2079 NOV 10 1930 WORK IN PROGRESS
DEPARTMENT

Received Office of Oil & Gas DEC 0 3 2014

WW4-A Revised 2/01

1) Date:	11/12/2014		
2) Operator's Well No.	804417 P&A		
3) API Well No.	47-043-02056		

						· · · · · · · · · · · · · · · · · · ·
			STATE OF WES	T VIRGINIA - BUI	REAU OF ENVIRO	NMENT
		DEPART	MENT OF ENVIRO	NMENTAL PRO	rection, office	OF OIL AND GAS
		3	NOTICE OF APPL	ICATION TO PLU	G AND ABANDON	
4)		ner(s) to be ser	ved:	<b>-</b>	5) Coal Operato	
	(a) Name	Davis Sias		<b>→</b> ,	(a) Name	None
	Address	P.O. Box 484		_	Address	
		Branchland, W	/V 25506	<b>-</b> -		to the second se
				<del>-</del> 4	Coal Owner/s	s) with Declaration
	(b) Name	Gary D. Moore			(b) Name	Please see attached sheet
	Address	138 Bellomy R		7	Address	for Coal Owners
	71441000	Branchland, W		=		
				-		
	e ve na o			_	A designation of	
	(c) Name			<b>⇒</b> :	Name	,——————————————————————————————————————
	Address			-	Address	
				<u>-</u> -		
				<del>-</del> :	Coal Lesse	e with Declaration
6)	Inspector	Ralph Triplett			(c) Name	None
٥,	Address	5539 McClellar	n Highway	<del>-</del> 1	Address	TOTAL
	71447000	Branchland, W		<b>-</b> \$		
				-		
	Telephone	304-389-0350		 _:		
				-		A TOTAL CONTRACTOR OF THE STREET, THE STRE
TO	THE PERSO	NS NAMED A	BOVE: You sho	uld have receive	ed this Form and	the following documents:
	(1) The applica	ation to Plug and A	bandon a Well on Fo	orm WW-4B, which	sets out the parties in	volved in the work and
	그리지 그 중지 그	The second second second	plugging work order;		and the state of t	
			owing the well location			
	NEED OF THE OWNER OWNER OF THE OWNER OWNE		- 10 <del>2</del>		a the application whi	ch are summarized in the
	au 50		However, you are no			ch are summarized in the
			25 <b>5</b> 7			to the second of
	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						
					named above (or by	publication in certain
_	circumstances	) on or before the c	lay of mailing or deliv			
3		Official Seal Notary Pub		Well Operator:	Chesapeake Appala	achia, L.L.C.
5	The same of	State of West Virginia	. /	Ву:	TVI, John	
)	但就是为一	Pfiyllis A. Cop	iley s	Its:		ntendent, Appalachia South
3	IM IM	Willard Circle Hurricane, V My Commission Expire		Address:	P.O. Box 18496	Toward and Australia
3		September 16, 2018			Oklahoma City, OK	73154-0496
(	~~~~	~~~~~~	ww	Telephone:	405-935-4073	
			inth	25 55	225	2200
Subs	cribed and swo	rn before me this	day of	1) 11.	the year of	2014
			Myllos a	. Coply	N	lotary Public
Иу С	ommission Exp	ires		nber 16, 2018		

Operator's Well Number: 804417

API Well Number: 47 – 043 – 02056

## 5) b) Coal Owner(s) with Declaration:

- 1) David Sias P.O. box 484 Branchland, WV 25506
- 2) H3 LLC 1483 Johns Creek Road Milton, WV 25541
- Brian Keith Bellomy
   145 Bethesda Drive
   Ona, WV 25545
- 4) Larry Adkins
  P.O. Box 421
  West Hamlin, WV 25571
- 5) Mervin L. Henson, Jr. 1418 Main Avenue Nitro, WV 25143
- 6) Illene F. Henson 10 Cardinal Lane Hurricane, WV 25526

Form WW-9 Rev. 02/01

API Number	47-043-02056		
Operator's Well No.	804417 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 49	94477557	
Watershed Mud River		Quadrangle _	Hager, W\	V 7.5'
Elevation682'	County Lincoln	Di	istrict	Union
Description of anticipa	ated Pit Waste: Plugging Returns/Cemen	nt .		
Will a synthetic liner b	e used in the pit? Yes		20 MIL	<u> </u>
Proposed Disposal Me	ethod For Treated Pit Wastes:  X		)	
Proposed Work For W — — — — — —	/hich Pit Will Be Used:		)	
issued on December 3 understand that the pr permit and/or other ap I certify under pen this application form a for obtaining the inform		nia Department of Environs of any term or condition.  Illiar with the information by of those individuals im the complete. I am awar	onmental Protection of the general submitted on immediately response that there are	
Company Official Title		ent Annalachia Sc	outh	
Subscribed and sworn  My Commission Expire	before me this 12th day of Novem Phyllis a. Caplu		4	y Public.



### Attachment #1

API #: 47-043-02056 Operator's Well No. 804417 P&A

Property Boundary	Diversion Leaves 111111111111111111111111111111111111				
Rond = = = = = = = = = = =	Spring —				
Existing Fence — X — X — X —	Wet Spot				
Planned Fence / / /	Drain Pipe with size in inches @	<del></del>			
Stream	Waterway $\longleftrightarrow$	$\Longrightarrow$			
Open Ditch ————————————————————————————————————					
Rock 686888	Artificial Filter Strip XXXXXXXXXXXXXXXXX	XXXXX			
North N	Pit: cut walls				
Buildings	Pit: compacted fill walls				
Water wells	Area for Land Application of Pit Waste				
Drill site					
•					
Proposed Revegetation Treatment: Acres Di	sturbed 1.0 Prevegetation pH 6.1	<del></del>			
Lime3 Tons/acre or to correct to pH6.5  Fertilizer (10-20-20 or equivalent)1/3 TON   lbs/acre (500 lbs minimum)  Mulch Tons/acre  Seed Mixtures  Area II					
Mulch_	Hay 2 Tons/acre Seed Mixtures				
Mulch _ Area I Seed Type lbs	Hay 2 Tons/acre  Seed Mixtures  Area II /acre  Seed Type	lbs/acre			
Area I Seed Type lbs KY-31 40	Hay 2 Tons/acre  Seed Mixtures  Area II  Vacre Seed Type  ORCHARD GRASS	15			
Area I Seed Type lbs KY-31 40 ALSIKE CLOVER 5	Hay 2 Tons/acre  Seed Mixtures  Area II /acre  Seed Type				
Area I Seed Type lbs KY-31 40	Hay 2 Tons/acre  Seed Mixtures  Area II  Vacre Seed Type  ORCHARD GRASS	15			
Area I Seed Type lbs KY-31 40 ALSIKE CLOVER 5	Hay 2 Tons/acre  Seed Mixtures  Area II  Acre Seed Type ORCHARD GRASS ALSIKE CLOVER  area for land application.	15			
Area I Seed Type   Ibs KY-31	Hay 2 Tons/acre  Seed Mixtures  Area II  Acre Seed Type ORCHARD GRASS ALSIKE CLOVER  area for land application.	15			
Area I Seed Type   Ibs KY-31	Hay 2 Tons/acre  Seed Mixtures  Area II  Acre Seed Type ORCHARD GRASS ALSIKE CLOVER  area for land application.	15			
Area I Seed Type   Ibs KY-31	Hay 2 Tons/acre  Seed Mixtures  Area II  Acre Seed Type ORCHARD GRASS ALSIKE CLOVER  area for land application.	15			

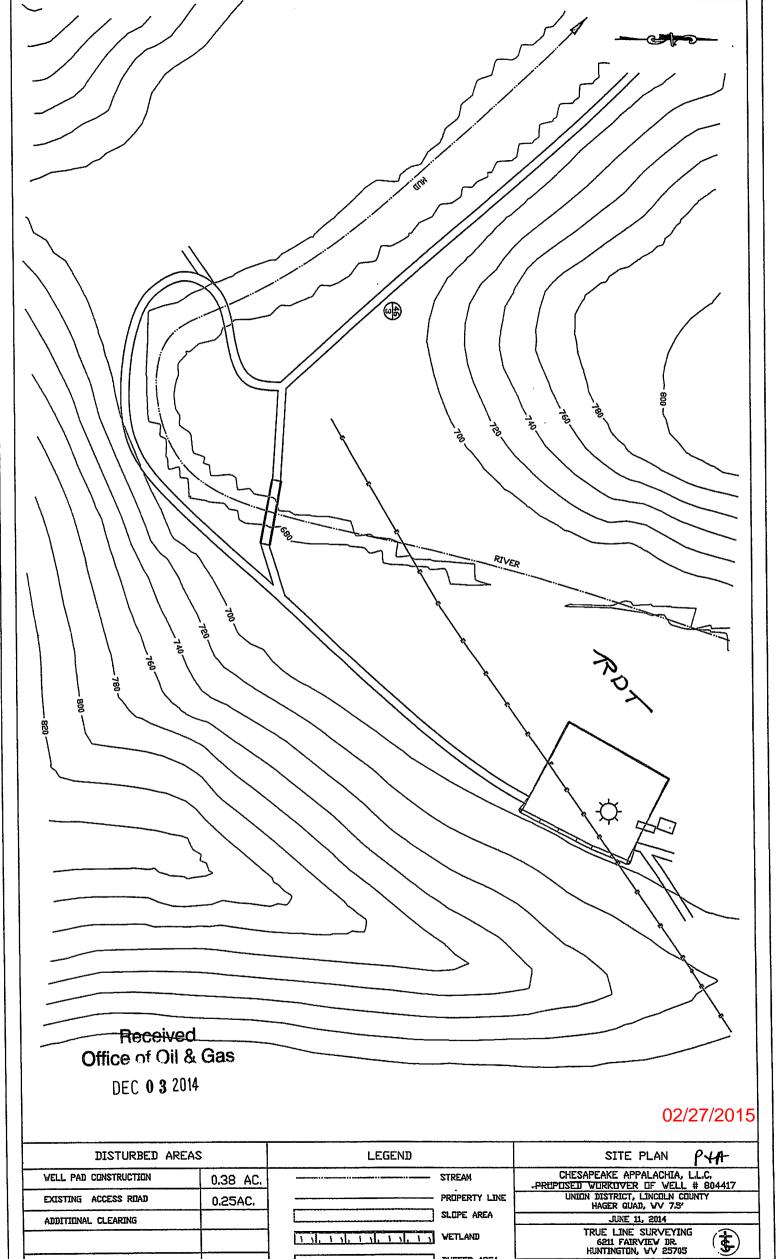
LEGEND

Received Office of Oil & Gas

Field Reviewed?

(\_\_\_\_) Yes (\_\_\_\_) No

DEC 0 3 2014

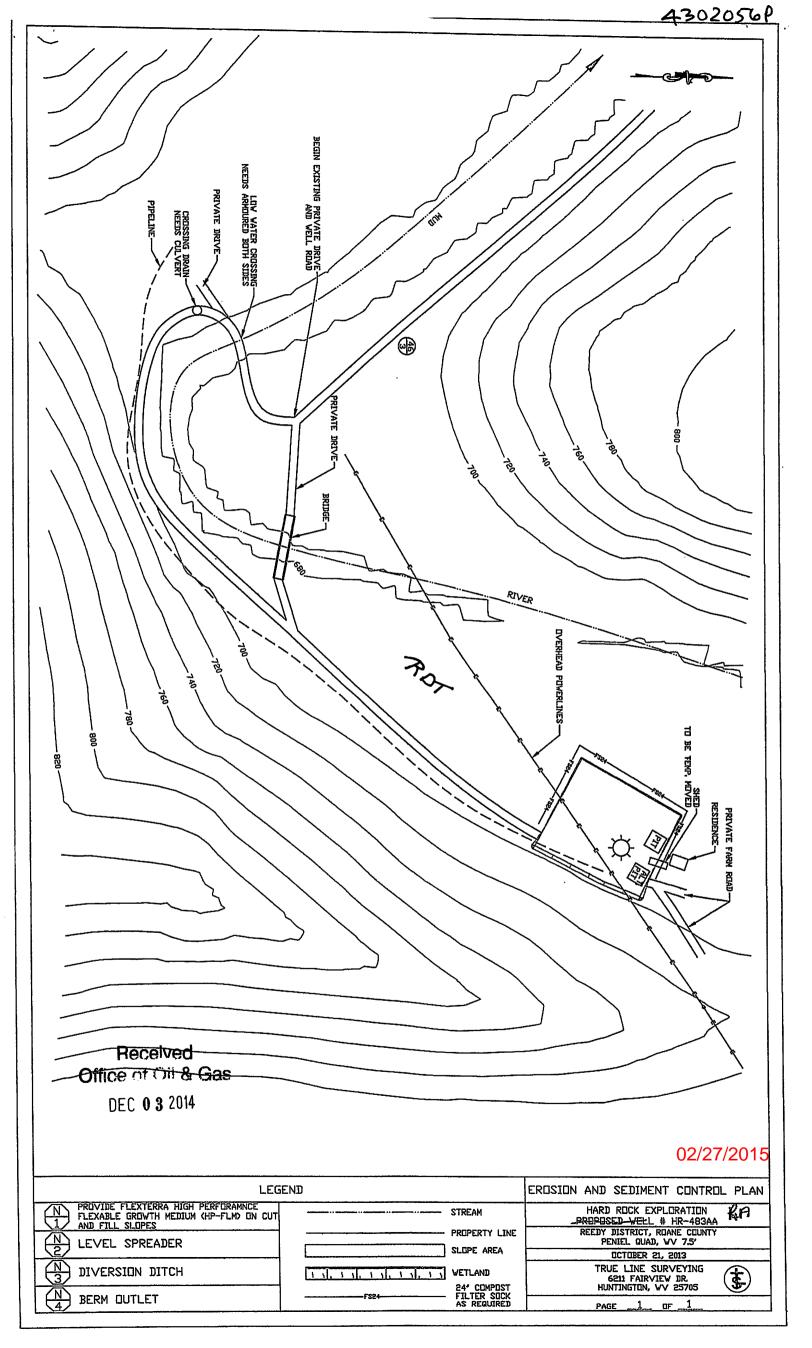


1 1, 1 1, 1 1, 1 1, 1 1

0.63 AC

TUTAL DISTURBED AREA

BUFFER AREA





02/27/2015



# West Virginia Department of Environmental Protection Office of Oil and Gas

·•		
WELL LOC	CATION FORM: GPS	
<sub>API</sub> : 4704302056	WELL NO.: 80	04417
FARM NAME: Adkins, Viole	a	
RESPONSIBLE PARTY NAME:	Rob Schindler	
COUNTY: Lincoln	district: Uni	on
QUADRANGLE: Hager, WV	7.5	
SURFACE OWNER: David Si	as,	
ROYALTY OWNER: Viola Ac		
UTM GPS NORTHING: 4,226,	039.220	
UTM GPS EASTING: 405,660	.425 GPS ELEVATION	<sub>ON:</sub> _682'
The Responsible Party named above in preparing a new well location plat for above well. The Office of Oil and Gast the following requirements:  1. Datum: NAD 1983, Zone: height above mean sea level above mean sea level.  2. Accuracy to Datum – 3.05  3. Data Collection Method: Survey grade GPS: Post Proceedings.	a plugging permit or assigned Ass will not accept GPS coordinates  17 North, Coordinate Units: met el (MSL) – meters.  meters	PI number on the sthat do not meet ers, Altitude:  Received
	ne Differential	DEC 5 2014
Mapping Grade GPS X: Post F	Processed Differential	Office of Oil and Gas
Real-	Time Differential	Office of Oil and Gas  W Dept. of Environmental Protection
4. Letter size copy of the top I the undersigned, hereby certify this of belief and shows all the information re prescribed by the Office of Oil and Ga	equired by law and the regulatior	nowledge and
Signature	Comp. Supt	

