

#### 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

July 07, 2015

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-3901754, 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.

Operator's Well No: 9033

Farm Name: BLUE CK COAL & LAND

James Martin

API Well Number: 47-3901754 Permit Type: Plugging

Date Issued: 07/07/2015

## 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.

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

rā i

5/21/2015 809033 P&A 1) Date: 2) Operator's Well No. 3) API Well No. 47-039-01754

# STATE OF WEST VIDGINIA

			DEPARTN	MENT OF ENV	RONMENTAL FOIL AND GA	PROTECTION		
4)	Well Type: (Is Gas, Prod	Oil	APPLICATIO Gas or Undergrour	s X	RMIT TO PLUG Liquid injection Dee		ste disposal Shallow X	
5)	Location:	Elevation _ District _	1,246' Elk	Watershed County	Kanawha	Rockcamı Quadrangle	Fork Clendenin, WV 7.5'	
6)	Well Operator Address	P.O. Box 1	ke Appalachi 8496 City, OK 731		7) Designated Address	P.O. Box		
8)	Address P.O. I	Urban Box 1207 Ienin, WV 2	5045		Address P	hesapeake Appala O. Box 18496 klahoma City, OK		
				See Attached SI		nched p	luggias	
	ication must be g k Order approved	_	- VI	gas inspector 24	hours before pe	rmitted work can con	nmence. Date <u>6-1-15</u>	

Received

JUN - 1 2015

07/10/2015

Office of Oil and Gas
WV Dept. of Environmental Protection

#### 809033 P&A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) Run in hole with tools to check TD (approximately 2215')
- 3) TIH with W.S. to 2200', spot gel, spot 300' cement plug 2200'-1900', pull W.S.
- Sex 2 kg 1800 s.

4) Cut 4 ½" at free-point (approximately 1750') and pull. If unable to pull at least 1700' of 4 ½", then shoot or rip holes approximately at 1725' and 1690'. Spot 100' cement plug 1750'-1650'.

- 5) If 4 1/2" was not pulled in step 4, then attempt to cut approximately at 1150', and pull
- 6) Run W.S. to 1150', spot gel
- 7) Spot 150' cement plug 1150'-1000', pull W.S.
- 8) Attempt to pull 8 5/8"
  - A) If successful
    - a) Run W.S. to 850', spot gel
    - b) Spot 100' cement plug 850'-750'
    - c) Proceed to step 9
  - B) If unsuccessful
    - a) Rip or shoot holes in 8 5/8" approximately at 770'
    - b) Run W.S. to 850', spot gel
    - c) Spot 100' cement plug 850'-750', pull W.S.
    - d) Cut 8 5/8" at free-point approximately at 375', and pull
    - e) Proceed to step 9
- 9) Run or pull W.S. to 375', spot gel
- 10) Spot 200' cement plug 375'-175', pull W.S. to 100'
- 11) Spot 100' cement plug 100'-surface
- 12) Pull W.S. and top off with cement
- 13) Erect monument and reclaim as prescribed by law

will make Dussens
on lest of
physical during

Will sex cocheck

Received

JUN - 1 2013

Office of Oil and Gas

WV Dept. of Environmental Profession

2257 (\$\$7/10/2015

1235 Elevario



# Well # 809033 API# 47-039-01754P

Page I g 2

#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION !!

Quadrangle Clendenin WELL RECORD Permit No KAN-1754 Oil or Gas Well Gas United Fuel Gas Company Company United Fuel Gas Company
Address P.O. Box 1273; Charleston 25, W. Va. Used in Drilling Casing and Tubing Left in Well Packers Farm Blue Crank Coal & Land Co. Acres 29,768 Location (waters) Rockcamp Fork 9033 Well No .... Elev. 1235.40 16. Kind of Packer\_ Elk \_County Kanawha District\_ The surface of tract is owned in fee by... 10\_3/4 201 \_Address\_ 8**%** 5/8 807 Union Carbide Chemicals Co6% 18801 Mineral rights are owned by-Pulled Depth set. 1106 Security Bldg. Address Charleston, W. Va. 53/16 4-10-61 Drilling commenced\_ x 44 Cemented 22571 Perf. top. 5-19-61 Drilling completed\_ Perf. bottom. Date Shot\_\_\_\_ \_From To. Liners Used Perf. top With Perf. bottom Open Flow 6 /10ths Water in\_ Inch \_/10ths Merc. in\_ Inch CASING CEMENTED SIZE No. Ft. Volume 232,000 - Weir .Cu. Ft. 445 ьs Rock Pressure\_ ..hrs. COAL WAS ENCOUNTERED AT 238 FEET 48 OfL \_bbls., ist 24 hrs. INCHES 802 FEET 24 INCHES WELL ACIDIZED \_\_INCHES WELL FRACTURED. RESULT AFTER TREATMENT. ROCK PRESSURE AFTER TREATMENT. 200 Fresh Water\_ 350 Salt Water. Hard or Soft Formation Color Oil, Gas or Water Top Bottom Remarks Depth Broken Sand 85 0 Water 200' 2 bailers per hours Slate 85 97 Broken Sand 97 173 238 Hole full water 350' Sand 173 238 Coal 242 Show gas 1070' Slate 242 252 Broken Sand 252 370 Gas 1930' 6/10 W 1" 26 M 370 455 582 455 582 Sand Gas 2090' 12/10 W 1" 37 M Slate & Shells 802 Coal 802 804 804 Perforated from 2090-2093', 2097-2098', 2102-2103', 2168-2169', 2183-2184', 2191-2192', 2194-2200', 2206-22062 Slate & Shells 980 Broken Sand 980 1002 Slate & Shells 1002 1055 and 2216' Broken Sand 1055 1120 Slate 1120 1148 Broken Sand 1148 1160 Test before fracture 2/10 W 1" 15 M
Fractured Weir 5-24-61 with 630 bbls.
water, 1500 gallons acid and 23,000#
249-20-40 sand.
Final open flow 6/10 W 3" 232 M Salt Sand 1160 1510 Slate & Shells 1510 1560 Line 1595 1660 1560 Sand 1595 1660 Red Rock 1665 Slate & Shells 1665 1690 Red Rock 16 16 17 10 TO 3/13 1690 1697 Shut in 5-31-61 in 42" tubing. Slate & Shells 1697 1777 1824  $\Delta$ Maxon 17**7**7 1824 Little Lime 1845 AUG 1901 Slate 1845 LOGS RUN: 1855 1870 ------1855 Line Gamma Rav G. G. Density Pencil Cave

1870

9888

1876

<u>Temperature</u>

Well # 809033 API# 47-039-01759P

Formation	Color	Hard or Soft	Top //	Bottom	Oil, Gas or Water	Depth Found	PI# 47-039-1
			1876 2051 2080 2086 2152 2214 2261	2051 2080 2086 2152 2214 2261			Page 20
					3		-
	-						
e .						7	
					1		+
		"t = 5					

	Date	August 15	, 19_61_
APPROVED_	UNITED FU	EL GAS COMPANY	, Owner
Ву	SK	Herrell (Title)	
5	Supt., Civil	Engineering Dept.	
			and the same of

WW4-A Revised 2/01

1) Date:

5/21/2015

2) Operator's Well No.

809033 P&A

3) API Well No.

47-039-01754

### STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

		NOTICE OF	APPLICATION TO PL	UG AND ABANDON	N A WELL
1)	Surface Ow	ner(s) to be served:	Carlo based to the control	5) Coal Operate	
	(a) Name	Blue Eagle Land LLC		(a) Name	None
	Address			Address	
		P.O. Box 58370			
		Charleston, WV 25358			
				Coal Owner(	s) with Declaration
	(b) Name	Clonch Industries		(b) Name	Blue Eagle Land LLC
	Address	P.O. Box 283	$\overline{}$	Address	Attn: Dave Hancock
		Dixie, WV 25059			P.O. Box 58370
					Charleston, WV 25358
	(c) Name			Name	
	Address			Address	
		-			
				Coal Lesse	e with Declaration
5)	Inspector	Terry Urban		(c) Name	Patriot Coal
	Address	P.O. Box 1207			63 Corporate Center Drive
		Clendenin, WV 25045			P.O. Box 1001
					Scott Depot, WV 25560
	Telephone	304-389-7583			- Contraction of the Contraction
0	THE PERSO	ONS NAMED ABOVE: Yo	u should have receiv	ved this Form and	the following documents:
	describes t	ation to Plug and Abandon a We the well its and the plugging work urveyor's map) showing the well	c order; and		volved in the work and
	The reason you	u received these documents is the the reverses side. However, you	nat you have rights regard	ing the application which	ch are summarized in the
	Take notice the	at under Chapter 22-6 of the Wes	st Virginia Code, the unde	rsigned well operator p	proposes to file or has filed the
	Notice and App	dication and accompanying docu	ments for a permit to plug	g and abandon a well w	with the Chief of the Office of
		est Virginia Department of Envir			
		cation and depicted on the attach			
	mailed by regis	stered or certified mail or delivere	d by hand to the person(s	s) named above (or by	publication in certain
		on or before the day of mailing of		170.72	
5	****	Official Seal Notary Public	Well Operator:	Cheşapeake Appala	achia I.I.C
5	NIST D	State of West Virginia	Ru:	-12 C	

Phyllis A. Copley My Commission Expire September 16, 2018

Subscribed and sworn before me this

Lehmola Its: Completion Superintendent Address:

P.O. Box 18496

Oklahoma City, OK 73154-0496 Telephone: 405-935-4073

215 the year of

Notary Public

My Commission Expires

September 16, 2018

07/10/2015

Received Office of Oil & Gas MAY 26 2015

Form WW-9 Rev. 02/01

API Number 47-039-01754
Operator's Well No. 809033 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 A	opalachia, L.I	C.	OP Code 4	94477557	
Watershed	Rockca	mp Fork		Quadrangle _	Clendenin	, WV 7.5'
Elevation 1,246	ô'	County _	Kanawha	_ D	istrict	Elk
Description of anticip	pated Pit Waste:	Plugging Ret	urns/Cement			
Will a synthetic liner	be used in the pit?	Yes	20	AIL.		
Proposed Disposal N	X Land Appl Undergrou Reuse (at	ication and Injection ( API Number_ sposal (Suppl	UIC Permit Num y form WW-9 fo	r disposal locati	) on)	
Proposed Work For		sed:			)	
issued on December understand that the permit and/or other a I certify under pethis application form for obtaining the information.	ped Name)	of Oil and Gas of the enforceable by on can lead to enforceable by on can lead to enformation is to enformation, including the enformation is considered.  Robert Schings of the enformation including the enforcement in the enforcement including the enfo	the West Virginia D r law. Violations of a forcement action. and am familiar vertical and on my inquiry of the are, accurate, and contain the possibility of fine	epartment of Enviro any term or condition with the information those individuals im- complete. I am awar	onmental Protect on of the general submitted on mediately respo	otion. I
Subscribed and swor	n before me this	Phys	May Clis a. Ci	ply		ary Public.
My Commission Expir	resSeptemb	er 16, 2018	_		Pfi	ifficial Seal Notary Publio State of West Virginia  yllis A. Copley ard Circle Hurricane, W 25528 May Commission Expires September 16, 2018

Received

mmmmm

JUN - 1 2015

07/10/2015

Office of Oil and Gas WV Dept. of Environmental Protection

#### Attachment #1

API #: 47-039-01754 Operator's Well No. 809033 P&A

207-102-120-12						
Property Boundary	-	Diversion Leannest Land Land	1111111			
Road = = = = = = = =	=	Spring O				
Existing Fence — X — X — X	_	Wet Spot &				
Planned Fence / / /	_	Drain Pipe with size in inches @	-			
Stream	~	Waterway C+ C+ C+ C+  Cross Drain T/T/T/T/T/T/T/T/T/T/T/T/T/T/T/T/T/T/T/				
Open Ditch						
Rock \$55 885						
North N		Pit: cut walls				
Buildings		Pit: compacted fill walls  Area for Land Application of Pit Waste				
Water wells						
		( The state of the				
Drill site						
Fertilizer (10-20-20 or equivale	ulch Hay 2					
* 0.00 *	See	ed Mixtures				
Area I Seed Type	lbs/acre	Area II				
CHESAPEAKE CONTRACTOR'S MIX	40	Seed Type ORCHARD GRASS	lbs/acre			
ALSIKE CLOVER	5	ALSIKE CLOVER	15 5			
ANNUAL RYE	15	and the same same	v			
Attach:						
Drawing(s) of road, location, pit and proportion	osed area for la	and application.	) ,			
Photocopied section of involved 7.5' topo	graphic sheet.	Ltutch K	ulle			
-/-						
Plan Approved by:	the					
Plan Approved by: Augusta  Title: Freld Inspects	the alse	- ?)				
2/11	the alse	- 95				

(\_\_\_\_) No

Field Reviewed?

LEGEND

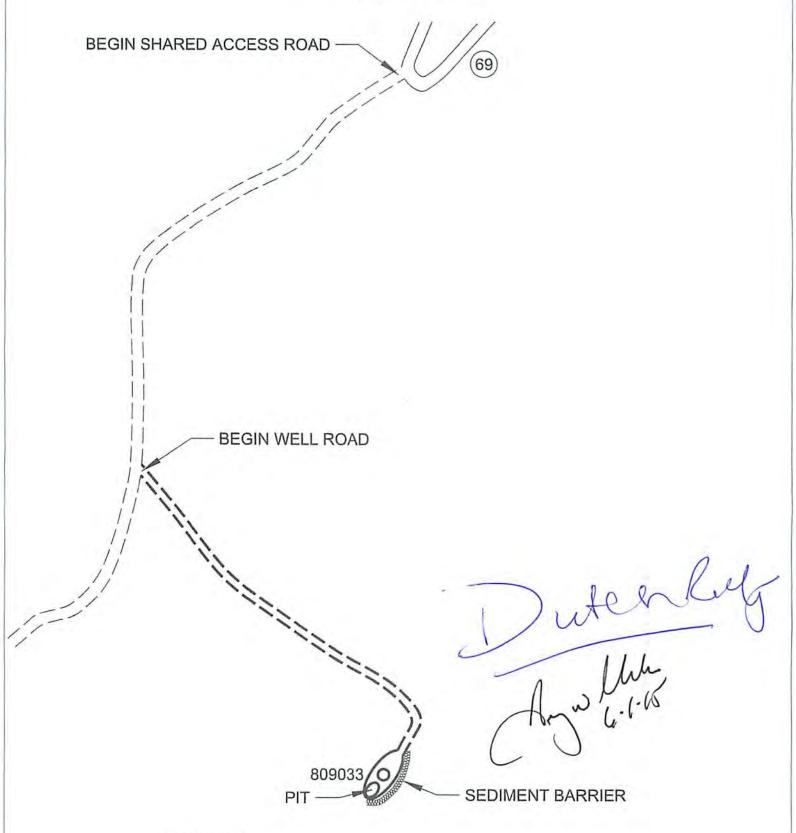
Receive 07/10/2015

JUN - 1 2015

### CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM WELL LOCATION 809033

API 47-039-01754



#### GENERAL NOTES

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

All culvert pipes will be a minimum of 15 inches in diameter. all culvert pipes installed will be accomanied 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 roacks of 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 contruction phase, where applicable, and in areas that will allow. These structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1.

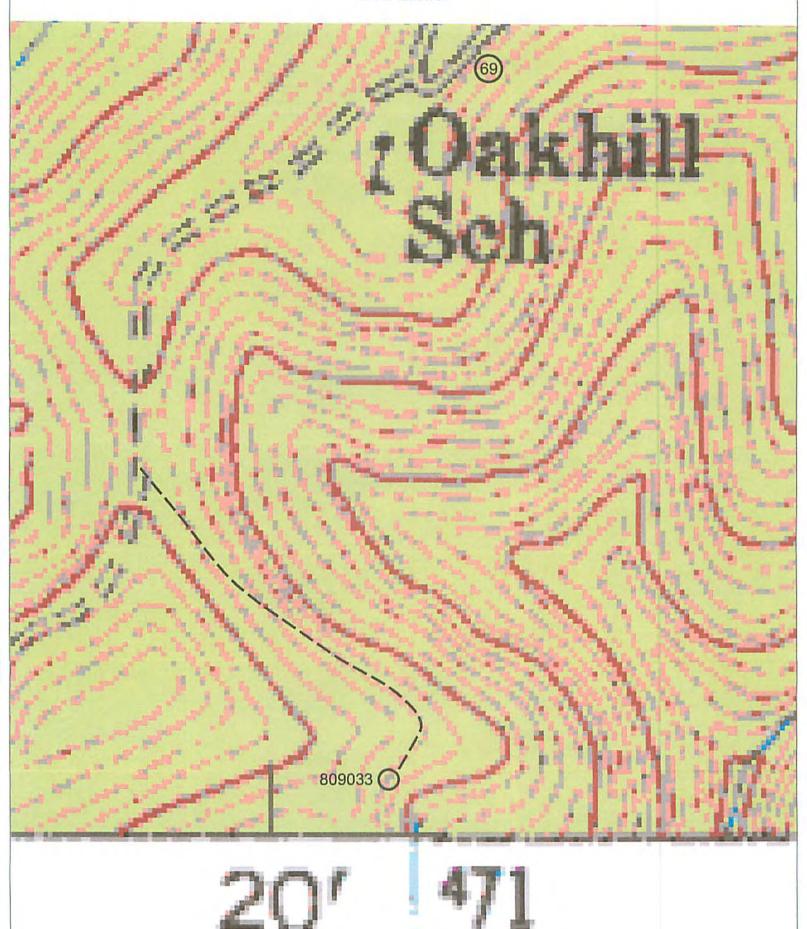
JUN - 1 2015

Office of Oil and Gas WV Dept. of Environmental Protection

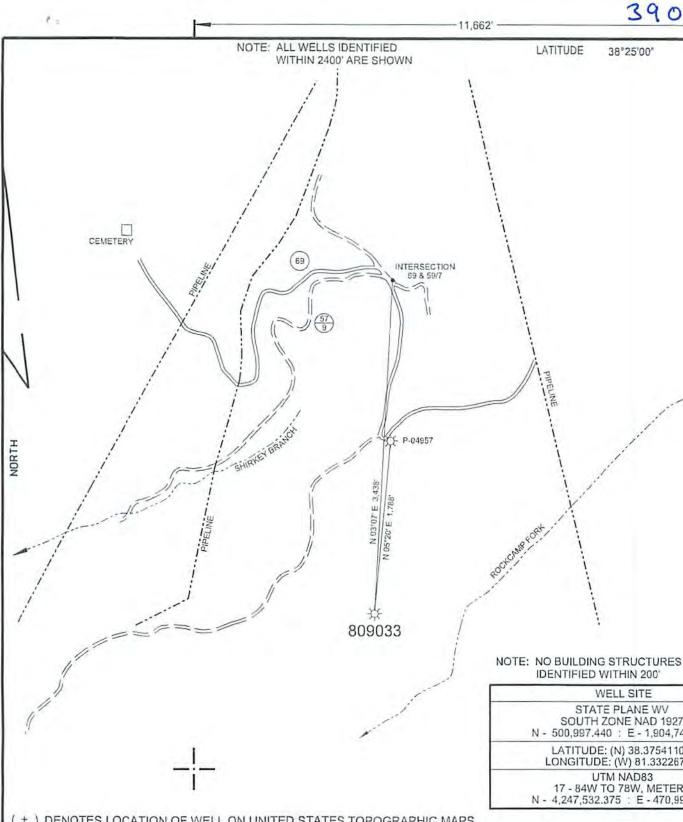
## CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND WELL LOCATION 809033

API 47-039-01754



Received
Office of Oil 87992015
MAY 26 2015



) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

CA809033P&A.DGN CA809033 P&A DRAWING NO. 1" = 1000" SCALE \_\_ MINIMUM DEGREE OF ACCURACY PROVEN SOURCE OF ELEVATION MAPPING GRADE GPS

FORM WW-6

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)

R.P.E. L.L.S.

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



DATE. OPERATOR'S WELL NO.

API WELL NO.

\_\_WASTE DISPOSAL. WELL TYPE: OIL. \_GAS\_X\_LIQUID INJECTION\_ (IF "GAS,") PRODUCTION\_X\_STORAGE \_\_\_DEEP\_\_\_SHALLOW\_X

STATE

\_ WATER SHED LOCATION: ELEVATION \_ 1.246'

DISTRICT\_ CLENDENIN. WV 7.5' QUADRANGLE \_ BLUE EAGLE LAND, LLC SURFACE OWNER

COUNTY\_

OIL & GAS ROYALTY OWNER \_\_\_

LEASE ACREAGE.

LEASE NO. \_ PROPOSED WORK: DRILL \_ CONVERT \_ DRILL DEEPER \_\_ REDRILL \_

STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW

FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) .

PLUG AND ABANDON X CLEAN OUT AND REPLUG \_

TARGET FORMATION . ESTIMATED DEPTH

WELL OPERATOR \_\_\_\_CHESAPEAKE APPALACHIA, L.L.C. \_\_\_ DESIGNATED AGENT \_\_

ADDRESS CHESAPEAKE APPLACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362 ADDRESS P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0496

