

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 28, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-500309, 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.

Chief

James Martin

Operator's Well No: 4617

Farm Name: MOHLER LUMBER CO

API Well Number: 47-500309 Permit Type: Plugging

Date Issued: 07/28/2014

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.

Obs File	RM WW-4 (B) serve • Copy	1) Date: 7/9/2014 2) Operator's Well No. 804617 P&A 3) API Well No. 47-005-00309
(Re	DEPARTMENT OF ENV	WEST VIRGINIA IRONMENTAL PROTECTION F OIL AND GAS
4)	Well Type: Oil Gas X (Is Gas, Production X or Underground storage	RMIT TO PLUG AND ABANDON Liquid injection Waste disposal _) Deep Shallow X
5)	Location: Elevation 1,009' Watershed County	Hog Trough Fork of Dicks Creek Boone Quadrangle Julian, WV 7.5'
6)	Well Operator Address Chesapeake Appalachia, L.L.C. P.O. Box 18496 Oklahoma City, OK 73154-0496	7) Designated Agent Address Eric B. Gillespie P.O. Box 6070 Charleston, WV 25362
8)	Oil and Gas Inspector to be notified Name Ross Eller Address 121 Brierhill Drive Beckley, WV 25801	9) Plugging Contractor Name Chesapeake Appalachia, L.L.C. Address P.O. Box 18496 Oklahoma City, OK 73154-0496
10)	Work Order: The work order for the manner of plugging to	nis well is as follows:
	See Attached S	heet

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

Work Order approved by Inspector

7/20/14

Office of Oil and Gas

Office of Oil and Gas

WW Department of Environmental Projection

Environmental Projection 08/01/2014

804617 P&A Procedure

- 1) Prepare road and location, MIRU Service Rig
- 2) RIH with tools to check top of cavings at approximately 2200'
- 3) Attempt to pull 3 1/2" and packer
 - A) If successful:
 - a) Run W.S. to 2250', load hole with gel
 - b) Spot 150' cement plug 2250' 2100'
 - c) Proceed to step #4
 - B) If unsuccessful:
 - a) Cut 3 ½" at free-point (approximately 2215')
 - Either spot plugs through 3 ½" or pull 3 ½" and run W.S. to 2215', load hole with gel
 - c) Spot 150' cement plug 2215' 2065'
 - d) Proceed to step #4
- 4) Pull pipe to 1800'
- 5) Spot 100' cement plug 1800' 1700', pull W.S. to 1675'
- Spot 100' cement plug 1625' 1525', pull W.S.
- 7) RIH with tools to check top of plug. If TOC is below 1550', then re-spot plug.
- 8) Cut 6 5/8" at free-point (approximately 700') and pull
- 9) Run W.S. to 700', load hole with gel
- 10) Spot 100' cement plug 700' 600', pull W.S.
- 11) Attempt to pull 8 1/4" casing
 - A) If successful:
 - a) Run W.S. to 570', load hole with gel
 - Spot 100' cement plug 570' 470', pull W.S. to 425'
 - c) Spot 160' cement plug 425' 265', pull W.S. to 120'
 - d) Spot 170' cement plug 120' surface
 - e) Proceed to step #13
 - B) If unsuccessful:
 - a) Rip or perforate holes at all coal seams below free-point
 - b) Run W.S to top of previous plug at 600'
 - Spot 100' cement plug 600' 500', pull W.S. to 425'
 - Spot 160' cement plug 425' 265', pull W.S. to 120'
 - e) Spot 120' cement plug 120' surface
 - f) Proceed to step #13
- 12) NOTE: In step 11B above: W.S. will need to be pulled at free-point in 8 ¼" casing. Then 8 ¼" will be cut and pulled. Then W.S. ran back to cut and a 100/01/2014 plug spotted at cut.
- 13) Pull W.S. and top off with cement
- 14) Erect monument and reclaim as prescribed by law

Received

JUL 1 1 2014

WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Well # 804617 P+19 API# 47-005-00309 Pag I of 2 Oil or Gas Well GAS WELL RECORD

Permit No. Boo-309

Company United Fuel Gas Company Address Box 1256, Cherleston, West Virginia	Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm Mohler Lumber Company Acres 3,000 Location (waters) Dick's Creek	Size			
Well No. 4617 Elev. 1005	16			Kind of Packer Hook Wall
District Scott County Boone The surface of tract is owned in fee by	10	601-911	601-911	Size of 3 1 x 6-5/8 1
Mohler Lumber Company Address Charleston, W. Va.		5821-411		
Mineral rights are owned by Same	20.00	15881-10"	1588'-10"	
Drilling commenced August 20, 1936			22601-10"	Perf. top None
Drilling completed November 12, 1936	2			Perf. bottom
Date shot11-13-36Depth of shot	(100 Table 100 T			Perf. top
Open Flow /10ths Water in				Terr. bottom
Volume 680 M Cu. Ft. Rock Pressure 360 lbs. 48 hrs.	CASING CE	MENTED	SIZE	No. FTDate
Oilbbls., 1st 24 hrs.				FEET 36 INCHES
Fresh water None feet feet Salt water feet feet		The state of the s		FEET 48 INCHES

Formation	Color	Hard or Soft	Тор	Bottom	Oil Gas or Water	Depth Found	Remarks
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ıd			57	82			
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nd		1)	230	300			
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ne			2080	2120	1		

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
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Slate & Shell Sine Shell Slate & Shell State & Shell Srown Shale Sime Shells Srown Shale Shite Slate Srown Shale Sorniferous I Sotal Depth	8 6		2430 2610 2640 2790 2825 3410 3490 3665 3905 4300 4553 4559	2610 2640 2790 2825 3410 3490 3530 3655 3905 4553 4559	Gas Gas Gas Gas Gas Gas	2926-2933 3074-3078 3115-3125 3240-3250 3324-3330 3470-3480 3536-3543	
		-				Office of Oil JUL I 0 0 WV Departme fronmental Pro January Pro	8/01/2014

APPROVED UNITED FUEL GAS CONPANY, Owner

By (Title) Chief Engineer.

WW4-A
Revised
2/01

1) Date:
2) Operator's Well No.
3) API Well No. 7/10/2014 804617 P&A 47-005-00309

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT

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	instructions on	the reverses side. However, yo	u are not required to take any	action at all.		
					ich are summarized in the	
	The reason vo	u received these documents is the	at you have rights regarding th	ne application whi	ich are summarized in the	
	(2) The plat (s	urveyor's map) showing the well	location on Form WW-6.			
	describes	the well its and the plugging work	order; and			
	(1) The applic	ation to Plug and Abandon a We	ll on Form WW-4B, which sels	oul the parties in	nvolved in the work and	
10	THE PERSO	ONS NAMED ABOVE: Yo	u snould have received t	inis Form and	the following documents:	
	THE BESS	NIO MANEE ABOUT		Li. C	Alexa, Carlla carlar as a Primaria constitue	
	Telephone	304-932-6844				
		121 Brierhill Drive Beckley, WV 25801			Alum Creek, WV 25003	
	Address			Address	P.O. Box 79	
6)	Inspector	Ross Eller		(c) Name	Coal River Energy	
				Coal Lesse	e with Declaration	
	Address			Address		
	(c) Name			Name		
						
		-	_		Charleston, WV 25326	
	Address			Address	P.O. Box 1669	
	(b) Name Address			(b) Name Address	Mohler Lumber Company C/O William E. Mohler	
	(b) Mana			and the second s	s) with Declaration	
		Charleston, WV 25326		0.10	3 - W. B. J H	
		P.O. Box 1669			Alum Creek, WV 25003	
	Address	C/O William E. Mohler	1/	Address	P.O. Box 79	
	(a) Name	Mohler Lumber Company	-/	(a) Name	Coal River Energy	
		101(0) 10 80 001 1041	5) Coal Operate		
4)	Surface Ow	ner(s) to be served:		HIND ADAMOO	TO THE LE	
4)	Surface Ow		APPLICATION TO PLUG	AND ARANDO	N A WELL	

500309A

Coal River Energy

FORM WW-4 (B) Reverse

Farm Name

Mohler Lumber - Robin Land Company
Well No. 804617 P&A

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application in given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

	WAI	VER		
The undersigned coal operator well location has examined this proposed proposed to be done at this location, pro- of the West Virginia Code and the govern	d plugging work order	er. The undersi	gned ha	_ / of the coal under this as no objection to the work all applicable requirements
Date: 7/9/14		By:		16. AL

Received

JUL 2 1 2016

Coal Fired Energy Revised 500309 P

FORM WW-4 (B) Reverse
 API No.
 47-005-00309

 Farm Name
 Mohler Lumber Company

 Well No.
 804617 P&A

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

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WAIVER

The undersigned coal operator / owner	/ lessee X / of the coal under this
well location has examined this proposed plugging work order. proposed to be done at this location, provided, the well operate	
of the West Virginia Code and the governing regulations.	4108 OF OTH
	Otto 8 8 50 12
	antmer rection
	MV Denartment of the Collection
1 1	11 Teknory
Date: 7/8/14	By: Wold / Emul
7/-//	- 11/1/1
	Its: Designeted Hout

FORM WW-4 (B) Reverse
 API No.
 47-005-00309

 Farm Name
 Mohler Lumber Company

 Well No.
 804617 P&A

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application in given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

	WAIVER	
The undersigned coal operator X / owne well location has exemined this proposed plugging wo proposed to be done at this location, provided, the we of the West Virginia Code and the governing regulation	/ lessee / of the coal under this ork order. The undersigned has no objection to the work oil operator has compiled with all applicable requirements ons.	
Date: 7/10/14	Mohler Lumber Company By: William & Mohlm III Its: President	,

Received

JUL 21 2014

SURFACE OWNER WAIVER

Operator's Well Number

804617 P&A

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 your 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 Street
Charleston, WV 25304
(304) 926-0499

<u>Time Limits and methods for filing comments</u>. 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.

erials, and I have no
ECUTION BY A CORPORATION,
ohler Lumber Company
Miam E Mohter TIT
resident.
lliam & Wahler III 7110/19
ignature Date

JUL 2 1 2014

U.S. Postal Service 114 CERTIFIED MAIL. RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) .DE For delivery information visit our v ALUM CREEK MY 25003 -0523 \$1.40 0 5 Postage 4 1 01 \$3.30 Certified Fee 0000 Postmark Return Receipt Fee (Endorsement Required) \$2.70 Here Restricted Delivery Fee (Endorsement Required) \$0.00 346 07/09/2014 Total Postage & Fees \$ \$7,40 Sent To 804617 P&A 012 Coal River Energy Street, Apt. No.; or PO Box No. 1 Fork Creek Road City, State, ZIP+ Alum Creek, WV 25003 PS Form 3800. U.S. Postal Service III

Well 804617 P+A API 47-005-00309



CERTIFIED MAIL, RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

7/9/19
Noticed wrong
Sunjace / Coal owner
as Kabin Land
50
reneticed on 7/10/14
as ymakler Lumber

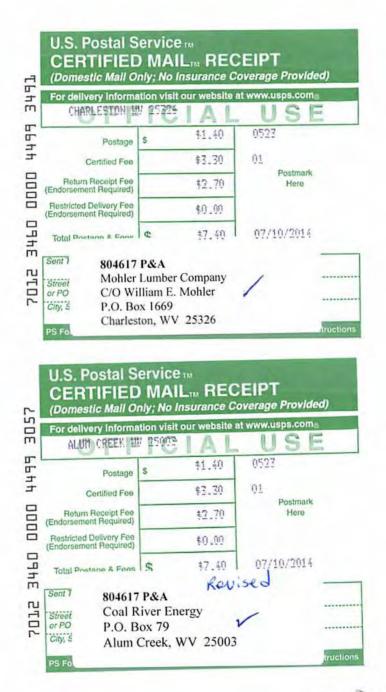
40 For delivery information visit our website at www.usps.com CHARLESTON IN 25304 0 1 T 0523 0 11.40 S Postage 1 1)1 \$3.30 Certified Fee Postmark Return Receipt Fee (Endorsement Required) 000 \$7.70 Here Restricted Delivery Fee (Endorsement Required) \$0.00 346D 07/09/2014 17 40 Total Postana & Fons S Sent To 804617 P&A Robin Land Company, LLC 707 Street, or POB 500 Lee Street, East - Suite 900 Charleston, WV 25301 City, Sta uctions PS For

Office RECEIVED

JUL I 0 2014

Environmental Protection 0

Well 804617 PSA API 47-005-00309



Office of Oil and Gas

JUL I 0 2014

Environmental Protection 08/01/2014

Rev. 02/01

API Number ____ Operator's Well No. ___ 47-005-00309 804617 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 Nam	e Chesapeak	e Appalachia, L.I	_,C,	OP Code 49	14477557	
Watershed	Hog Trough	n Fork of Dicks Cre	ek	Quadrangle _	Julian,	WV 7.5'
Elevation	1,009'	County _	Boone	Di	strict	Scott
Description of	anticipated Pit Waste	Plugging Ret	urns/Cement			
Will a synthetic	c liner be used in the p	oit? Yes		20 MI	<u>L</u> ,	
Proposed Disp	Under Reuse Off Si	ated Pit Wastes: Application ground Injection (e (at API Number_ te Disposal (Suppl (Explain_	y form WW-9	for disposal location)) on)	
Proposed Wor	rk For Which Pit Will B Drilling Worke Swabl X Pluggi Other	g over bing)	
issued on De understand t permit and/o I certify t this applicati for obtaining significant pe Company Offic	that I understand and agree ecember 31, 1999, by the Country that the provisions of the performance of the information, I believe the enalties for submitting false cial Signature	Office of Oil and Gas of trmit are enforceable be gulation can lead to en ave personally examinate thereto and that, bas that the information is the same that the same same same same that the same same same same same same same sam	the West Virginia by law. Violations of the Violations of the Violations of the Virginia and the possibility of the Virginia and the possibility of the Virginia and Virginia	Department of Environment of any term or condition with the information of those individuals impropelete. I am awar	onmental Prote on of the gene submitted on mediately res	ection. I ral ponsible
Company Offic	cial Title	Manager - Op	erations, App	alachia South		
Subscribed an	on Expires Sep	s \underline{gh} day of $\underline{Phyllos a}$. tember 16, 2018	July Capluj	,201	-	otary Public.
					V - bash	



Received

JUL 1 108/01/2014

Office of Oil and Gas
WW Dept. of Environmental Protection

Attachment #1

API #: 47-005-00309 Operator's Well No. 804617 P&A

	LE	EGEND	
Property Boundary		Diversion Continuential	1.1.1.1.1111
Road = = = = = = = =	= ==	Spring O	
Existing Fence — X — X —	- × -	Wet Spot 15	
Planned Fence / /	. /	Drain Pipe with size in inches (E	
Stream Aug 7	· 20 . A	Waterway	
		Cross Drain	7777
Rock ESSEES		Artificial Filter Strip	******
North N		Pit: cut walls	LAAAAAA.
Buildings		Pit: compacted fill walls	
Water wells (W)		Area for Land Application of Pit Waste	
Drill site		And to Land Application of the Wasie	
Diff. site			
Fertilizer (10-20-20 or ed Area I Seed Type KY-31 ALSIKE CLOVER	Mulch Hay 2	Tons/acre or to correct to pH6.5 bs/acre (500 lbs minimum) Tons/acre ed Mixtures Area II Seed Type ORCHARD GRASS ALSIKE CLOVER	Ibs/acre 15 5
ANNUAL RYE	15		
Attach: Drawing(s) of road, location, pit and Photocopied section of involved 7. Plan Approved by: Title: Date:			
Field Reviewed? ()	Yes () No	

Received

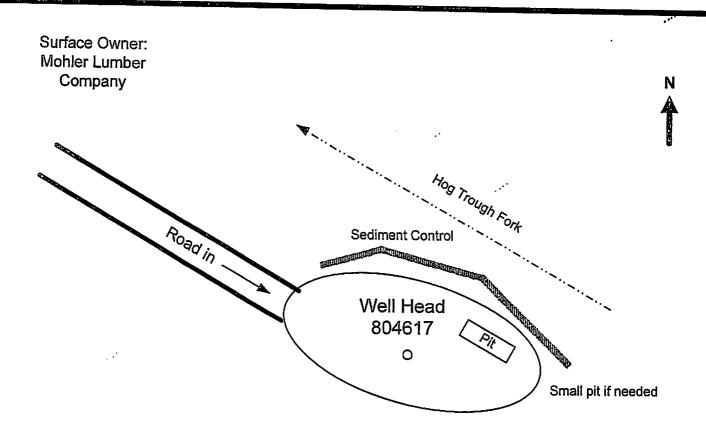
JUL 1 1 2014

Office of Oil and Gas WV Dept. of Environmental Protection

08/01/2014

CHESAPEAKE APPALACHIA, L.L.C.

Diagram of Well Location 804617 API 47-005-00309 Field Office - Hamlin County - Boone



Note: Overbonded area of Surface Mine Permit S-5008-12. Access may be modified before or during P&A process.

GENERAL NOTES

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

All culvert pipes will be a minimum of 15 inches in diameter. All culvert pipes installed will be accompanied by an entrance sump with dimensions no less than 3 feet (width) x 3 feet (length) x 4 feet (deep). Culverts will be installed at an angle to ensure proper flow. The out fall of culverts will be protected from erosion and sedimentation using large rocks or other sediment controls deemed necessary in the prevention of erosion and sedimentation. Storm water from the ditches to the culverts will be directed to stable natural vegetative areas. Where culverts are not practical, operator will have other sediment control in place to minimize erosion and sedimentation.

Cross drains, broad based dips, water bars, and diversion ditches will be employed during the construction phase. These erosion and sediment control structures will be used to control erosion and sedimentation during the construction phase, where applicable and areas that will allow structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1

JUL 11 2014

Site Plan

Office of Oll and Gas
WV Dept. of Environmental Protection

Prepared by: Kris Aldridge

Date: 6/30/2014

No See 1/2014

CHESAPEAKE APPALACHIA, L.L.C. 5 00309P

Topographical Map of Access and Well Location 804617 API 47-005-00309 Field Office - Hamlin County - Boone

