

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

April 30, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5900341, 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

Operator's Well No: 80815 (8015)

Farm Name: COTIGA DEV CO.

API Well Number: 47-5900341 Permit Type: Plugging

Date Issued: 04/30/2014

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.

₩W-4B Rev. 2/01

3/25/2014 1)Date 1) Date 3/25/2014 2) Operator's Well No. 808015 3) API Well No. 47-059 - 00341

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 1282' Watershed Lick BR of Marrowbone Creek District Kermit County Mingo Quadrangle Trace 7.5
6)	Well Operator AddressChesapeake Appalachia. L.L.C.7) Designated Agent P. O. Box 18496Eric B. GilespieOklahoma City, OK 73154-0496AddressP. O. Box 6070Charleston, WV 25362
	Oil and Gas Inspector to be notified Name Jeremy James Address P. O. Box 147 Ona, WV 25545 9) Plugging Contractor Name Address
kkk	ckkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkk
0)	Work Order: The work order for the manner of plugging this well is as follows:
	(SEE ATTACHED PLUGGING PROCEDURE)
oti	fication must be given to the district oil and gas inspector 24 hours before permitted can commence.
ork	order approved by inspector Date 4-3-14

REC 05/02/2014 Office of

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808015 P&A PROCEDURE

NOTE: 7" casing is nearly split apart and crushed by mine subsidence at 132'.

- 1) Prepare road and location, run slick line or camera to be sure we can get at least 2.25" down hole.
- 2) MIRU Service Rig, run tools to check top of bridge or fill at approximately 2450'
- 3) Run W.S. to just above top of fill at approximately 2400', load hole with gel
- 4) Spot 100' cement plug 2400'-2300', pull W.S. to 2070'
- 5) Spot 200' cement plug 2070'-1870', pull W.S.
- Run in hole with tools (if possible) to check TOC (If top of plug is not above 1900' then re-set plug)
- 7) Perforate 7" at approximately 1190', 1100', 330', 280', 200' and 170'
- 8) Run W.S. to 1200', load hole with gel
- 9) Spot 150' cement plug 1200'-1050', pull W.S. to 340'
- 10) Spot 100' cement plug 340'-240', pull W.S. ABOUR FRESH WATER & BELOW COM
- 11) Attempt to pull 7" casing, should come apart at 132', if not rip at 118' and pull
- 12) Run W.S. to 200', load hole with gel
- 13) Spot 70' cement plug 200'-130', pull W.S.
- 14) Rip 8 5/8" at free-point (approximately 100') and pull
- 15) Run W.S. to 130'
- 16) Spot 130' cement plug 130' surface
- 17) Pull W.S. and top off with cement
- 18) Erect monument and reclaim as prescribed by law

Office of

05/02/2014

- weedon

59 00341P

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Holden

HIN-341

WELL RECORD

Oil or Gas Well Gan

Permit No. Company UNITED FUEL GAS COMPANY Casing and Tubing Used in Drilling Packers Address P. O. Box 1273, Charleston 25, W.Va. Farm Cotiga Dev. Co. #12 Acres 3525.75 Location (waters) Marrowbone Creek Kind of Packer Elev. 1282,68 8015 Well No__ 13 Kermit Mingo _County_ District 201 10 Size of_ The surface of tract is owned in fee by_ 3561 8址 Address 19201 711 Mineral rights are owned by Cotina Dev. Co. Depth set. Address Philadelphia, Pa. 5 3/16. 8-27-52 Perf. top. Drilling commenced 11-26-52 Perf. bottom Drilling completed_ Date Shot 11-28-52 From 2732 3646 Liners Used. Perf. top. 6,066-2/3# DuPont Gelatin Perf. bottom. With /10ths Water in_ Open Flow Inch 12 /10ths Merc. in_ CASING CEMENTED SIZE Inch No. Ft. 539,000 Volume_ Cu. Ft. 370# 48 hrs. Rock Pressure 36 INCHES COAL WAS ENCOUNTERED AT 120 FEET OiL bbls., 1st 24 hrs. 290 1300 167 FEET 36 INCHES Fresh water_ feet FEET INCHES Salt water_ feet FEET INCHES FEET INCHES feet Oll, Gas or Water Hard or Soft Depth Found Formation Color Top Bottom Remarks 0 20 Water 290 Surface 20 120 Sand Hole fill water 1300 123 167 Coal 120 123 Slate 167 170 Show gas 26551 Coal 300 Sand 170 325 300 Show gas 27751 Slate 325 385 Sand 395 635 Show gas 33551 Slate 385 395 Sand Test before shot 11/10 W 2" 140 M Shot 11-28-52 with 6,066-2/3# DuPont Gelatin from 2732-3646' Test 1 hour after shot 32/10 Merc.2" Slate 635 900 900 982 Sand 982 1100 Slate 1100 1165 Sand Slate 1165 1170 880 M Test 14 hours after shot 12/10 Merc.
2" 539 M
50' cavings
FINAL OPEN FLOW - 539 M - Br. Shale
48 Hr. R.P. 370# Salt Sand 1400 1505 Sand Slate 1510 1585 Sand 1585 1605 1766 Sand 1605 1766 Shut in 11-29-52 in 7" Casing Slate Red Rock 1825 1827 Slate 1827 1860 Little Lime 1908 1860 Pencil Cav 1910' DLM - 1920' Depthometer 1908 1910 2065 2125 Big Lime 1910 2065 Injun Sand Slate & Shells 2125 2640 Coffee Shale Berea Grit 2665 2640 2665 2730 G2021222324253 Brown Shal 2730 2800 3345 3636 White Shale 2800 3345 Brown Shale Slate JAN 1953 3636 3646 Total depth 3646 WEST VINGINIA DEPARTMENT OF MINES

(Over)

05/02/2014 O1 and Gas 11. (1 6 2014 VVV Department of Environ

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		19_22
Mr. J. R. Bussey, D	dv. Supt.	
Weil No. 8015 (Se	on Cotiga Dev	elopment #12 Farm
Was shot this date with	6066-2/3# Dupont	<u>Golatin</u> quarts
Number of Shells	91	
Length of Shells	4-1/4"x10"6"	
Top of Shot	27323	
Bottom of Shot	36461	
Top of	Brown Shale	Sand 2730 feet
	8late (Name of Sand)	SandSand
	3646°	
Results: 14 Hrs efter	Shat 12/10 M-2" - 5	39 ¥
Remarks:		
Signed	W. H. Cha	Somon.
		District Supi.

UNITED FUEL GAS COMPANY

Carried Control of the Control of th			Charles to the		
RECORD OF WELL NO. 8015 on	he	CASING A	ND TUBING		TEST BEFORE SHOT
Cotiga Dev. #12 farm of Ac	es size	WEIGHT	DAILLING IN	WELL WELL	11 /10 of Water in. 27 incl
in Kermit Distr	ict 10-3/	u" 32.75#	29	20	/10 of Merc, inincl
Mingo Cour	ity 8-5/	8" 24.00#	357	357	Volume 140 MCF Cu. fe
State of: West Virginia	7"	20,00#	1940	1940	TEST AFTER SHOT
Field: Branchland					/10 of Water inincl
Rig Commenced By Contractor	9				12/10 of Merc. in. 2" inc
Rig Completed By Contractor	9				Volume 539 MCF Cu. fr
	52				Hours After Sho
	952				Rock Pressure 370#
Drilling to cost per fo					Date Shot 11 -28-52
Contractor is: E. C. Ware					Size of Torpedo 6666-2/3# Go
Address: Beauty, Kyo	***************************************		SHUT IN		Oil Flowedbbls. 1st 24 hrs
		Da	. 11-29-	52	Oil Pumpedbbls. 1st 24 hrs
Driller's Name MoClelland Horn		7"_in.	Casing	Tubing or Casing	
Luther Mills			acker 7 "X8-5,		Well abandoned and
			Packer Botto		Plugged19
			Setf	-	- 1.0gg-tu
Elevation: 1282.68			Setf		
		DRILLER'S RECOR			
PORMATION	TOP BOT	THICKNESS			REMARKS
Surface	0 2	0 20			
Sand	20 12	The House of the Control of the Cont			
Coal	120 12	3 3			
Slate	23 16				
Coal	69 17				
Sand	70 30	0 130	Water	at 290°	
Slate	00 32	5 25	(Hereit		
Sand	25 38	5 60			
Slate	85 39	5 10			(61)
Sand	95 63	5 240	1	APPROV	101
Slate	35 90	0 265	Y	11/1.8	1. Chapmes
Sand	98	2 82		and the same	1
	82 110				
	.00 116				
	65 117				
	70 140		Hole fr	111 Water	1300 [±]
Sand 11	00 150	5 105			

SERIAL WELL NO. 8015 LEASE NO. 12832

MAP SQUARE 28-25

		DRILL	ER'S RECORD	
FORMATION	TOP	роттой	THICKNESS	REMARKS
Slate	1505	1510	5	
Sand	1510	1585	75	
Slate	1585	1605	20	
Sand	1505	1766	161	·
Slate	1766	1625	59	
Red_Rook	1825	1827	2	
Slate	1827	1860	33	
Little Line	1860	1908	48	
Pencil Cave	1908	1910	2	
Big Lime	1910	2065	155	
Injun Sand	2065	2125	60	
Slate & Shells	21.25	5670	515	
Coffee Shale	56/10	2665	25	Show of Gas @ 2655*
Berea Grit	2665	2730	65	Show of Gas @ 2775*
Brown Shale	2730	2800	70	Show of Gas @ 3355*
White Shale	2800	3345	545	
Brown Shale	3345	3636	291	
Slate	3636	3646	10_	
TOTAL DEPTH	3646*			18/10 W-2"
		•		
·				
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CK 5139975

1) Date: 3/25/2014

2) Operator's Well Number 808015

3) API Well No.: 47 -

059

00341

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 Opera	tor
(a) Name	_Cotiga Development Company *	Name	Consol of KY, Inc.
Address	P. O. Box 1956	Address	P. O. Box 76
	Williamson, WV 25661		Naugatuck, WV 25685
		(b) Coal Own	ner with Declaration
		Name	Cotiga Development Company
		Address	P. O. Box 1956
			Williamson, WV 25661
(b) Name		(c) Coal Lessee	With Declaration
Address		Name	Consol of KY, Inc.
		Address	P. O. Box 76
			Naugatuck, WV 25685
6) Inspector	Jeremy James	Coal Lesse	e with Declaration
Address	P. O. Box 147	Name	
	Ona, WV 25545	Address	
Telephone	(304) 951-2596		
	-	-	
Address 6) Inspector Address	Jeremy James P. O. Box 147 Ona, WV 25545	Name Address Coal Lessee Name	Consol of KY, Inc. P. O. Box 76 Naugatuck, WV 25685

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 Operato By:	Chesapeake Appalachia, L.L.C. David Stumbo
Its:	Production Superintendent- Devonian, Eastern Div.
Address	P. O. Box 18496
	Oklahoma City, OK 73154-0496 Office of Old and
Telephone	(606) 298-3400
200	MAK 2 7 2014
	smant of

Subscribed and sworn before me this 25th day of March Notary Public Nota





SURFACE OWNER WAIVER

Operator's Well Number API 808015

47-059-00341

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

FOR EXECUTION BY A CORPORATION,

ETC.

FOR EXECUTION BY A CORPORATION

/

Signature

Date 4/3/14 Name

CENTACK RICHARDSON

Date 4/3/14

A. Signature

Date

WV Department of Environmental Procession

WW-4B	
Reverse	

API No	47-059-00341
Farm Name	Cotiga Development Co
Well No	808015

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 is 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
location has examined this propose work proposed to be done at thi	or X / owner / lessee X / of the coal under this well d plugging work order. The undersigned has no objection to the s location, provided, the well operator has complied with all Virginia Code and the governing regulations.
Date: 4/3//4	By: Consu of KENDURY - TALK KKHONDSTEN Its
	Office of Oil and Gas
	APR 0 4 2014
	Environmental Protection

WW-9 Rev. 02/01

Page1_	of _	2	
API Number 47			
Operator's Well No.	8080	15	

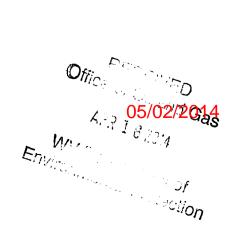
STATE OF WEST VIRGINIA

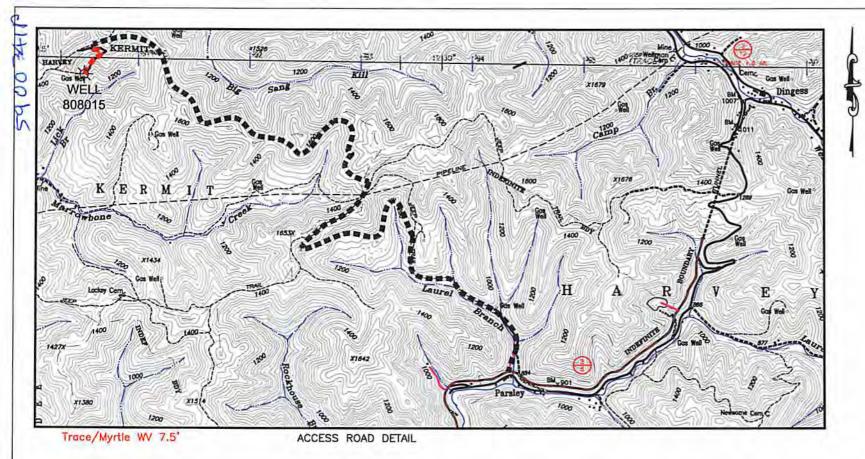
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Chesapeake Appalachia, L.L.C.	OP Code <u>494477557</u>
Watershed_ <u>Lick BR of Marrowbone Creek</u> Quadrangle <u>Trace, WV</u>	7.5'
Elevation 1282' County Mingo	District Kermit
Description of anticipated Pit Waste: Plugging returns	
Will a synthetic liner be used in the pit? Yes.	
Proposed Disposal Method For Treated Pit Wastes: X Land Application Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for dotted Other (Explain	disposal location)
	Swabbing Plugging
I certify that I understand and agree to the terms and concerning permit issued on December 31, 1999, by the Office of Oil Environmental Protection. I understand that the provisions of the term or condition of the general permit and/or other applicable law I certify under penalty of law that I have personally e submitted on this application form and all attachments thereto are immediately responsible for obtaining the information, I believe that I am aware that there are significant penalties for submitting false imprisonment. Company Official Signature Company Official Title Production Superintendent, Appalachian So	and Gas of the West Virginia Department of a permit are enforceable by law. Violations of any or regulation can lead to enforcement action. Examined and am familiar with the information and that, based on my inquiry of those individuals at the information is true, accurate, and complete se information, including the possibility of fine or
Subscribed and sworn before me this 25th day of Ma	Arch RECEIVED Moore Notary Publicas of Oil and Gas
My commission expires 5/94/9017	WAD 9 7 2014

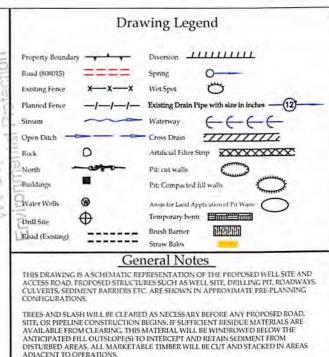
LEGEND

Property Boundary	Diversion Leavent: 17.17.17.17.17.17.17.17.17.17.17.17.17.1
Road = = = = = = = = = = = = = = = = = = =	Spring O
Existing Fence — X — X — X —	Wet Spot
Planned Fence///	Drain Pipe with size in inches @
Stream Change Town	Waterway C+ C+ C+
Open Ditch	Cross Drain
Rock 635 885	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Lime Tons/acre or to correct to	pH
Fertilizer (10-20-20 or equivalent) Mulch 250 lb Tons/ac	
MulchTons/ac	ere
Mulch 250 lb Tons/ac	Mixtures
MulchTons/ac	ere
Mulch 250 lb Tons/ac Seed Area I	Mixtures Area II
Mulch 250 lb Tons/ac Seed Area I Seed Type lbs/acre	Mixtures Area II
Mulch 250 lb Tons/ac Seed Area I Seed Type lbs/acre	Mixtures Area II
Mulch 250 lb Tons/ac Seed Area I Seed Type lbs/acre	Mixtures Area II
Mulch 250 lb Tons/ac Seed Area I Seed Type lbs/acre	Mixtures Area II Seed Type lbs/acre
Mulch 250 lb Tons/ac Seed Area I Seed Type lbs/acre Cereal Rye 17.5 / 1/8 Attach:	Mixtures Area II Seed Type lbs/acre
Mulch 250 lb Tons/ac Seed Area I Seed Type lbs/acre Cereal Rye 17.5 / 1/8 Attach: Drawing(s) of road, location,pit and proposed area for la	Mixtures Area II Seed Type lbs/acre
Mulch 250 lb Tons/ac Seed Area I Seed Type lbs/acre Cereal Rye 17.5 / 1/8 Attach: Drawing(s) of road, location,pit and proposed area for la	Mixtures Area II Seed Type lbs/acre
Mulch 250 lb Tons/ac Seed Area I Seed Type lbs/acre Cereal Rye 17.5 / 1/8 Attach: Drawing(s) of road, location,pit and proposed area for la Photocopied section of involved 7.5' topographic sheet.	Mixtures Area II Seed Type lbs/acre





Coal Haul Road Begin Well Access Rd. Cotiga Development Co. - SURFACE -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. Lick Branch



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 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 CULVERIS WILL BE DIRECTED TO STABLE NATURAL VEGETATIVE AREAS, WHERE CULVERTS ARE NOT PRACTICAL, OPERATOR WILL HAVE OTHER SEDIMENT CONTROL IN PLACE TO

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 SEDIMENTATION TONTROL STRUCTURES WILL BE USED TO CONTROL EROSION AND SEDIMENTATION DURING THE CONSTRUCTION PHASE, WHERE APPLICABLE AND AREAS THAT WILL.

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 11-1 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 808015

> Located Near The Community Of Parsley In The Kermit District Of Mingo county West Virginia.

DATE: 03-21-14 DRAWN BY: JDH

SCALE: Not To Scale 808015 P&A Rec Plan.dwg



