

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

June 30, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-7301337, issued to LOGUE, CATHY, 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

lames Martin

Operator's Well No: H-1291

Farm Name: KEARSE, G. WARREN

API Well Number: 47-7301337

Permit Type: Plugging
Date Issued: 06/30/2016

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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 under the terms of that agreement.

WW-48 Rev. 2/01

1) Date March 9	, 2016
2) Operator's	
Well No. H-1291	
3) API Well No.	47-073 -01337

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

5)	Location: Elevation 961'	Watershed Left Fork French Creek	
	District McKim	County Pleasants Quadrangle Schultz 7-1/2 quad	
5)	Well Operator Cathy Logue	7)Designated Agent	
	Address 1664 Hardy Hill Road St. Marys WV 26170	Address	
	St. Walys VVV 20170		
3.)	and ode implector to be notified	9) Plugging Contractor	
	Name Derek Haught Address PO Box 85	Name Chisler Brothers Contracting	
		Address PO Box 101	
Smithville WV 26178 Pentress WV		D	
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Derek M. Haught Date 4/25/2016

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JUN 1 6 2016

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FORM IV-35 (Reverse)

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, RT.

Mitrogen Fraced by B. C. Hughs

500 gallons acid

Perforations: 20 holes (4982 - 4982)

WELL LOG

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by Waster R. Dlangtof

NOTE: Regulation 1.0:417 ; couldes un fellous:

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WELL TYPE: OIL X GAS X LIQUID (IP GAS", PRODUCT LOCATION: ELEVATION GO!	IOH X STORAGE DIS	POSAL	7
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TARGET PORMATION SHALE	CLEAN OUT AND REPLE	0 - 5400'	
WELL COMPATOR HAUGHT	INC DESIGNATED	AGEST WARREN HAUGHT	

Office of Oil and Gas

JUN 1 6 2016

WW-4A 1) Date: March 9, 2016 Revised 6-07 2) Operator's Well Number H-1291 3) API Well No.: 47 -073 01337 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 Cathy Logue Name Address 1664 Hardy Hill Road Address St. Marys WV 26170 (b) Name (b) Coal Owner(s) with Declaration Address Name Address (c) Name Name Address Address 6) Inspector Derek Haught (c) Coal Lessee with Declaration Address PO Box 85 Name Smithville WV 26178 Address Telephone 304-206-7613 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 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, certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator	Cathy Logue		RECEIVED
	By: Its:	Cett Zagre		Office of Oil and Gas
CRYSTAL J. SPEARS State of West Virginia My Commission Expires No. 20	Address Telephone	1664 Hardy Hill Road St. Marys WV 26170		JUN 1 6 2016
Subscribed and sworn before me this	ルサ da	y of _ March	2016	WV Department of Environmental Protection
My Commission Expires	Nov 3	2018	Notary Public	
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.

Office of Oil and Gas

SURFACE OWNER WAIVER

JUN 1 6 2016

Operator's Well Number

WV Department of Environmental Protection

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

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

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

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

210.			A STATE OF THE STA
Signature	Date <u>3-//-/</u> 2 Name By		
	Its		Date
		Signature	Date

WW-9 (2/15)

API Number 47 - 073 - 01337

Operator's Well No. H1291

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

OFFICE OF OIL AND GAS	
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name Cathy Logue	
Quadrant Cobult 75	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	
Will a pit be used? Yes No	No 🗸
If so, please describe anticipated pit waste: water	
Will a synthetic lines by the state of the synthetic lines by the sy	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number Reuse (at API Number	
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain_	
Will closed loop system be used? If so, describe: yes - see attached	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic petroleum etc. NA	esh water gel
-If oil based, what type? Synthetic, petroleum, etc. NA Additives to be used in drilling medium? bentonite	
Drill cuttings disposal method? Leave in the Leave	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. remove offsite	
the in pit and plan to solidily what medium will be used? (assessed to	
of offsite name/permit number? See attachment	
remittee shall provide written notice to the occ	
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the per- where it was properly disposed.	matted waste rejected at any rmittee shall also disclose
, yeary anaposod.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER I on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Propositions of the permit are enforceable by law. Violations of any term or condition of the general plaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the importance of the information form and all attachments thereto and that, based on my inquiry of those individuals obtaining the information, I believe that the information is true, accurate, and complete. I am away penalties for submitting false information, including the possibility of fine or imprisonment.	otection. I understand that the permit and/or other applicable
Company Official Signature TSassa a. Chieles	Office of Oil and Gas
Company Official (Typed Name) Bruce A Chisler	
Company Official Title	JUN 1 6 2016
Subscribed and and a late	WV Department of
Subscribed and sworn before me this 11th day of March , 20 16	Environmental Protection
Notary Public	
My commission expires Nov 3 2018	NOTARY PUBLIC OFFICIAL SEAL CRYSTAL J. SPEARS
	State of West Virginia My Commission Expires Nov. 03, 2018 487 Hunting Hills Wadestown, WY 26590

Attachment A to WW-9

Cathy Logue plans to utilize a closed loop process for the drilling of the H-1290 well. Return flow from the well will be separated into its liquid and solid form. Liquids will be held in steel tanks and reused in the drilling and completions process or disposed of at an approved facility listed below. Solids removed from the stream will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated.

H-1290 drill cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal.

- Westmoreland Landfill (Tervita) Belle Vernon, PA (Permit #100277)
- Meadowfill Landfill (Waste Management) Bridgeport WV (Permit #SWF103298)
- Max Environmental Yukon, PA (PAD004835146 and 301071)
- Max Environmental Bulger, PA (PAD059087072 and 301359)
- Chestnut Valley Landfill (Advanced Disposal) Export, PA (Permit #101421)

Cathy Logue plans to reuse and recycle all flow back fluid and/or reach out to other operators in the area who may be able to reuse and recycle such fluid. However, in the event that reuse is not obtainable the fluid will be disposed of at one, or multiple, of the following disposal/approved wast facilities unless listed facilities are no longer approved or accept waste at time of disposal:

- Fairmont Brine Processing (WV NPDES #0116408)
- Green Hunter M.E> Elder 1 Disposal Well (Permit #47-085-05151)
- Green Hunter Mason 1 Disposal Well (Permit #47-085-09721)
- Green Hunter Warren Disposal Well (Permit #34-121-2-3995)
- Green Hunter Travis Unit Disposal Well (Permit #34-121-2-4086)
- Viking Energy Corporation 20320 Disposal Well (Permit #47-039-02210)
- Ohio Oil Gathering Killbuck Disposal Well (Permit #34-075-24527)
- Ohio Oil Gathering Moran Disposal Well (Permit #34-089-24792)
- Ohio Oil Gathering Bells Run Disposal Well (Permit #34-167-29395)
- Ohio Oil Gathering Long Run Disposal Well (Permit #34-167-29658)
- Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-29658)
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit #2D0732523)

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Office of Oil and Gas

JUN 1 6 2016

Form WW-9

Proposed Revegetation Treatr	nent: Acre	es Disturbed 2.2	2 Prevegetation pH TE	
			t to pH 7	
Fertilizer type 19-19			•	
Fertilizer amount 50	0			
Mulch_2			Tons/acre	
			· Originality	
			Seed Mixtures	
	porary		Permanent	
Seed Type	lbs/ac	же	Seed Type	lbs/acre
orchard grass	46		Orchard grass	46
red clover	8		red clover	8
tertraploid perennia		16	tertraploid perennial rye	16
timothy 15 annual rye)	15		
Photocopied section of involved				
lan Approved by:				
omments:				
le:			Data	
eld Reviewed? () Yes		Date:	RECEIVED
		<u> </u>) No	Office of Oil and
				IIIN 1 6 2016

JUN 1 6 2016

Topo Quad: Schultz 7.5' 1" = 2000' Scale: Pleasants County: June 27, 2016 Date: District: McKim 156-51-M-16 Project No: 47-073-1337 H-1291 Topo Maxwel 47-073-1337 H-1291 Pleasants NAD 27, North Zone N:307111.73 E:1531951.05 WGS 84 LAT:39.331445 LONG:-81.154568 PLEASANTS **ELEV:1104** SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. Cathy Logue 1664 Hardy Hill Road St. Marys, WV 26170 1-800-482-8606 172 Thompson Drive Bridgeport, WV 26330 PH: (304) 848-5035 RECEIVED FAX: (304) 848-5037 Office of Oil and Gas

JUN 2 9 2016

WW-7 8-30-06



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

API: 47-073-1337 WELL NO.: H-1	291
FARM NAME: G.Warren Kearse	
RESPONSIBLE PARTY NAME: Cath	y Logue
COUNTY: Pleasants	DISTRICT: McKim
QUADRANGLE: Schultz 7.5'	
SURFACE OWNER: Cathy Logue	
ROYALTY OWNER: Cathy Logue	
UTM GPS NORTHING: 4353569.8	
UTM GPS EASTING: 486678.4	GPS ELEVATION: 337m (1104 ft.)
preparing a new well location plat for a plus above well. The Office of Oil and Gas will the following requirements: 1. Datum: NAD 1983, Zone: 17 Note that height above mean sea level (Most 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Real-Mapping Grade GPS: Post GPS	Processed Differential Time Differential Processed Differential Prime Differential Time Differential phy map showing the well location. Is correct to the best of my knowledge and

JUN 2 9 2016

I 6/29/16	Operator:	LOGUE, CATHY
	API:	7301337
	WELL No:	H-1291
	Reviewed by:	9WM Date: 6/29/16
		Comment: Waiver

CHECKLIST FOR FILING A PERMIT

Plugging

WW-4B
Inspector signature on WW-4B
Completion / Well Records of Previous Work
WW-4A (Notarized)
Certified Mail Receipts, Waivers, or Affidavits of Personal Service
Surface Owner Waiver
Coal Owner / Lessee /Operator Waiver
WW-9 (Page 1) (Notarized)
N/A Inspector Signature on WW-9 (Optional)
✓ Topographic Map of location of well
WW-7
OR
Mylar Plat (Surface owner on plat matches WW-4A)
√ Bond
Company is Registered with the SOS
Worker's Compensation / Unemployment Insurance account is OK
\$100.00 check (\$0.00 if no pit)