

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

November 17, 2014

WELL WORK PERMIT

Horizontal Well

This permit, API Well Number: 47-4303473, issued to HARD ROCK EXPLORATION, INC., 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chie

Operator's Well No: HR-OIL 1

Farm Name: BYRD, ARTHUR

API Well Number: 47-4303473

Permit Type: Horizontal Well

Date Issued: 11/17/2014

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

			43	2	0
1) Well Operator:	Hard Rock Exploration, Inc.	494464205	Lincoln	Duval	Alum Creek, WV 7.5
		Operator ID	County	District	Quadrangle
2) Operator's Well	Number: HR-Oil 1	_	3) Elevation:	1120'	_
4) Well Type: (a) (OilX or Gas				
(b) I	f Gas: Production X / Unc	lerground Sto	rage		
	Deep/ S	hallow X			
5) Proposed Targe	et Formation(s): Berea Sand		Proposed Tar	get Depth:	2600'
		Formation at F	Proposed Tot	al Depth: Ber	rea Sand
	esh water strata depths: 750' alt water depths: 1300'				
o) Approximate se	iii water deptiris.				
9) Approximate co	al seam depths: None noted in	offset wells			_
10) Approximate v	oid depths,(coal, Karst, other):	None			
			2		
11) Does land cor	ntain coal seams tributary to act	ive mine?	0		-
12) Describe propo	sed well work and fracturing meth	ods in detail (a	ttach additiona	al sheets if ne	eeded)
Drill 12 3/8" hole on ai	r/ Freshwater foam; Drill 8 3/4" hole o	n Air/Freshwate	r foam/Fluid; Dr	ill Bottom hole	on foam/fluid.
KOP-2037', Land cur	ve- 2900'MD/ 2605'TVD , 2200'VS, 4	570'TMD			
Run 4.5" casing with o	pen hole packer completion. Stimula	te with fluid/ Nitro	ogen Foam		

CASING AND TUBING PROGRAM 13)

TYPE S	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	<u>CEMENT</u>
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13 3/8"	LS	37	30'	30'	NA
Fresh Water	9 5/8"	LS	26	850'	850'	415cuft cts
Coal						
Intermediate	7"	mc50	19	2900'	2900'	625cuft cts
Production	4 1/2"	m65	10.5	4570'	4570'	as needed
Tubing						RECEIVED Office of Oil and
Liners						007 1 4 201

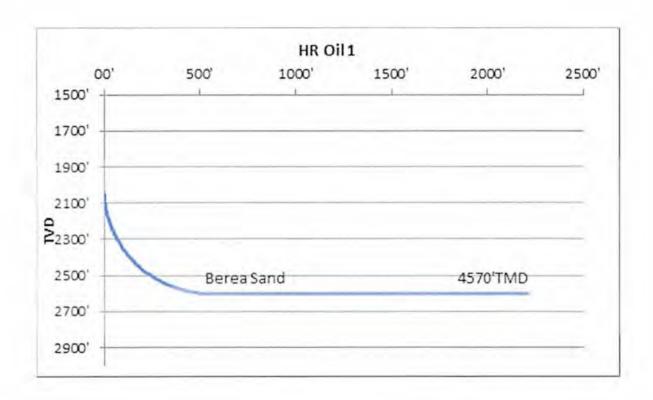
Packers: Kind: Hydraulic Set open hole packer

Sizes: 4.5" X 6 5/8" 10k diff Seal

Depths Set Place 10 stg open hole packer system from 2950'- 4570' (162' spacing per stg

NOTICE

WELLBORE GRAPH HARD ROCK EXPLORATION WELL NO. HR-Oil 1



CK 000061

HARD ROCK EXPLORATION, INC. 1244 MARTINS BRANCH ROAD CHARLESTON, WV 25312 DECEIVED OF 124 15

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Office of Oil and Gas

OCT 1 4 2014

WV Department of Environmental Protection

9-5-14

Permit

WW-	2A
(Rev.	6-14)

1). Date: August 27, 2014

2.) Operator's Well Number

State County

HR-Oil 1

3.) API Well No.: 47- 043 -

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Ow	mer(s) to be served:	5) (a) Coal Operator
(a) Name	Arthur Bvrd	Name None
Address	PO Box 18	Address
71441000	Sod. WV 25564	
(b) Name	300, WV 23304	(b) Coal Owner(s) with Declaration
Address	+	
Address	-	Name (See Attached) Address
	-	Address
(c) Name		Name
Address		Address
6) Inspector	Ralph Triplett	(c) Coal Lessee with Declaration
Address		
Address	5539 McClellan Hwv	MARKET TO THE PARTY OF THE PART
- 1 1	Branchland, WV 25506	Address
Telephone	304-389-0350	
2.00		AMED ABOVE TAKE NOTICE THAT:
	ne lease or leases or other continuing	g contract or contracts by which I hold the right to extract oil and gas
<u>OR</u>	Policy Commencer of the	
		2, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
		of the West Virginia Code I have served copies of this notice and
application, a loc		nents pages 1 through on the above named parties by:
	Personal Service (Affidavit atta	ached)
X	Certified Mail (Postmarked pos	
	Publication (Notice of Publication	on attached)
		nd 35 CSR 4, and I agree to the terms and conditions of any permi
issued under this		
		sonally examined and am familiar with the information submitted or
		ased on my inquiry of those individuals immediately responsible fo
	ormation, I believe that the information	
	are that there are significant penalties	s for submitting false information, including the possibility of fine and
imprisonment.		11 15 15 15
WIST TO	The first of the second	Hard Rock Exploration, Inc.
Carl B	JOAN L. BEANE By:	
《尼蒙斯塔斯五氏》	State of West Virginia Its: Commission Expires Sept. 6, 2022 Address:	Excoditio vice i foolderit
M A A STATE OF THE MANAGEMENT AND ADDRESS OF THE AD		1.344 Martine Branch Boad
1244 NJ	ACIONS BRANCH RD. CHARLESTON, WV 25312	1244 Martins Branch Road
1244 NJ	ARTINS BRANCH RD. CHARLESTON, WV 25312	Charleston, WV 25312
1244 NB	RTINS BRANCH RO. CHARLESTON, WV 25312 Telephone:	Charleston. WV 25312 00 1 4 704 304-984-9004
1244 AU	Telephone:	Charleston. WV 25312 00 1 4 70M 304-984-9004 monica@hardrockexploration.com// Department of
1244 NJ	RTINS BRANCH RO. CHARLESTON, WV 25312 Telephone:	Charleston. WV 25312 00 1 4 70M 304-984-9004 monica@hardrockexploration.com// Department of
1244 NJ	Telephone:	Charleston, WV 25312 304-984-9004 monica@hardrockexploration.com/ Department of September 2014 monica@hardrockexploration.com/ Department of September 2
Subscribed and	Telephone: Email: sworn before me this 11th day of	Charleston. WV 25312 304-984-9004 monica@hardrockexploration.com// Department of September Notary Public
1244 NJ	Telephone: Email: sworn before me this 11th day o Facility day of the spires 15ept 6, 203	Charleston. WV 25312 304-984-9004 monica@hardrockexploration.com// Department of September Notary Public

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 because your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

HR-Oil 1

Mineral Owners:

Laura Hawkins Stewart 625 Carybell Lane Alpharetta, GA 30004

James H. Pettigrew
516 Garrison Avenue
Charleston, WV 25302

Joseph Kirwin Pettigrew and Stephen R. Knowlton 51 Raymond Avenue
Unit 3

Somerville, MA 02144

Kathleen T. Pettigrew
1380 Grey Oaks Drive
Gahanna, OH 43230

Eileen K. Pettigrew c/o Kathleen T. Pettigrew, AIF 1380 Grey Oaks Drive Gahanna, OH 43230

Anne Marie Pettigrew 1380 Grey Oaks Drive Gahanna, OH 43230

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OCT 1 4 2014

WV Department of Environmental Protection

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SURFACE OWNER WAIVER

County	Lincoln	Operator	Hard Rock Exploration, Inc.	
		Operator well number	HR-Oil 1	

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 FIFTEEN (15) 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 a dequate 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.

<u>Comments must be in writing.</u> 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.

<u>List of Water Testing Laboratories</u>. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through _____ including a work order on F orm WW2-B, a s urvey plat, and a s oil and erosion plan, all for proposed well work on my surface land as described therein.

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			OR EXECUTION BY A CORPORATION, ETC.		
auther Byl	Date 10-3-14	Company Name			
Signature Arthur Byrd	RECEIVED Office of Oil and Gas	By Its		Date	
Print Name	007 14 200		Signature	Date	

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Lincoln Operator Hard Rock Exploration, Inc.	Operator's Well Number HR-Oil 1
Operator Hard Hock Exploration, Inc.	Operator's Well Number
INSTRUCTIONS TO C	OAL OPERATOR, OWNER, OR LESSEE
any objection you wish to make or are re	ssee named on page WW2-A. You are hereby notified that quired to make by WV Code 22-6-15, 16 or 17, must be filed as within fifteen (15) days after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	
	WAIVER /
location has examined this proposed well location, the well location has been added	/ owner / lessee / of the coal under this well location. If a mine map exists which covers the area of well d to the mine map. The undersigned has no objection to the provided, the well operator has complied with all applicable and the governing regulations.
FOR EXECUTION BY A NATURAL PERSON Laura Hawkins David Date Signature	FOR EXECUTION BY A CORPORATION, ETC. 9/22/14 Company Name
Signature	By Its Date
	Signature Date

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VVV Department of Environmental Protection

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Lincoln Operator Hard Rock Exploration, Inc. Operator's Well N	umber HR-Oil 1
INSTRUCTIONS TO COAL OPERATOR, O	OWNER, OR LESSEE
To the coal operator, owner, or lessee named on pag any objection you wish to make or are required to make by W with the Chief of the Office of Oil and Gas within fifteen (15) by the Office. Mail objections to:	N Code 22-6-15, 16 or 17, must be filed
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	
WAIVER	
The undersigned coal operator/ owner/ location has examined this proposed well location. If a mine location, the well location has been added to the mine map. work proposed to be done at this location, provided, the well requirements of the West Virginia Code and the governing region.	map exists which covers the area of well The undersigned has no objection to the operator has complied with all applicable
FOR EXECUTION BY A NATURAL PERSON FO	OR EXECUTION BY A CORPORATION, ETC.
Date 16 Sept 14 Name	
Signature By Its	Date
	Signature Date

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Office of Oil and Gas

OCT 1 4 2014

WV Department of Environmental Protection

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Lincoln Operator Hard Rock Exploration, Inc.	 Operator	's Well Numl	ber HR-Oil 1	
INSTRUCTIONS	TO COAL OPER	ATOR, OW	NER, OR LESSE	E
To the coal operator, owner, any objection you wish to make or a with the Chief of the Office of Oil a by the Office. Mail objections to:	are required to m	ake by WV (Code 22-6-15, 16	or 17, must be filed
Chief, Office of Oil and Gas Department of Environmental Prote 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	ction			
	WAIV	ER		
The undersigned coal operational location has examined this propose location, the well location has been work proposed to be done at this lo requirements of the West Virginia Country of the EXECUTION BY A NATURAL PERS	ed well location. I added to the mir cation, provided, code and the gove	f a mine ma ne map. The the well ope erning regula	p exists which cove e undersigned has rator has complie ations.	vers the area of well s no objection to the
Joseph & Dotoger	Date 10/8/14	Company Name		
Signature		By _		Data
	10/2/14	Its _		Date
		_	Signature	Date
Joseph K. Pettrgrew				
Joseph K. Pettrgrew Stephen Knowlten	RECEIVI Office of Oil a			
	OCI 142	014		
	WV Departn Environmental	nent of Protection		

	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
	 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. 	A. Signature Agent Addressee
	Attach this card to the back of the mailplece, or on the front if space permits.	D. Is delivery address different from item 1? Yes
	1. Article Addressed to:	If YES, enter delivery address below:
	Joseph Kirwin Pettigrew & Stephen R. Knowlton	
	31 Raymond Avenue	3. Servipe Type
	Unit 3 Somerville, MA 02144	☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.
		4. Restricted Delivery? (Extra Fee)
	Article Number (Transfer from service label)	2000 0001 7717 5746
	PS Form 3811, February 2004 Domestic	Return Receipt 102595-02-M-1540
	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
	 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse 	A. Signature X. Futte Beval Agent Addressee
	so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name) C Date of Delivery
	Article Addressed to:	D. Is delivery address different from item 1?
	Arthur Byrd	
	PO Box 18	
	Sod, WV 25564	3. Service Type ☐ Certified Mail ☐ Registered ☐ Insured Mail ☐ C.O.D.
		4. Restricted Delivery? (Extra Fee)
	2. Article Number 7011 2	000 0001 7717 5753
		ic Return Receipt 102595-02-M-1540
	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
RECEIVE Office of Oil ar	Complete items 1, 2, and 3. Also complete	A. Signature Hawkins Agent
·	so that we can return the card to you.	B. Received by (Printed Name) C. Date of Delivery
DCT 1 4 20		
	or on the front if space permits	D. Is delivery address different from item 1? Yes If YES, enter delivery address below:
WV Departm	or on the front if space permits nent of. Article Addressed to: Protection	D. Is delivery address different from item 1? Yes If YES, enter delivery address below:
WV Departm	or on the front if space permits nent of. Article Addressed to: Protection	D. Is delivery address different from item 1? Yes
	nent of Article Addressed to: Protection Laura Hawkins Stewart	D. Is delivery address different from item 1? Yes If YES, enter delivery address below:

4363473H

Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.	COMPLETE THIS SECTION ON DELIVERY
 Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X Agent Addresse B. Received by (Printed plame) C. Date of Delivery C. Date of Delivery
Article Addressed to:	D. Is delivery address different from Item 1? Yes If YES, enter delivery address below: No
James H. Pettigrew	
516 Garrison Avenue	
Charleston, WV 25302	3. Service Type Grentified Mail
	4. Restricted Delivery? (Extra Fee)
2. Article Number 7011 20	00 0001 7717 5760
(Transfer from service label)	
PS Form 3811, February 2004 Domestic F	COMPLETE THIS SECTION ON DELIVERY A. Signature X. M. O. D. Ett Sieu Addresse B. Received by (Printed Name) Q. Date of Delive
PS Form 3811, February 2004 Domestic F SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece,	COMPLETE THIS SECTION ON DELIVERY A. Signature X. M. M. O. A. Signature Addresse
PS Form 3811, February 2004 Domestic F SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Kathleen T. Pettigrew	COMPLETE THIS SECTION ON DELIVERY A. Signature X. M. Addresse B. Received by (Printed Name) Q. Date of Delivery D. Is delivery address different from item 1? Yes
PS Form 3811, February 2004 Domestic F SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	COMPLETE THIS SECTION ON DELIVERY A. Signature X. M. Addresse B. Received by (Printed Name) Q. Date of Delivery D. Is delivery address different from item 1? Yes

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OCT 1 4 2014

WV Department of Environmental Protection

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Book/Page
Laura Hawkins Stewart		Hard Rock Exploration, Inc.	% of 1/8	54/335
James H. Pettigrew		Hard Rock Exploration, Inc.	% of 1/8	54/413
Joseph Kirwin Pettigrew and Stephen R. Knowlton		Hard Rock Exploration, Inc.	% of 1/8	54/371
Kathleen T. Pettigrew		Hard Rock Exploration, Inc.	% of 1/8	54/374
Eileen K. Pettigrew		Hard Rock Exploration, Inc.	% of 1/8	54/377
Anne Marie Pettigrew	7	Hard Rock Exploration, Inc.	% of 1/8	54/380

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP. Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management RECEIVED

WV Division of Natural Resources

WV Division of Highways

U.S. Army Corps of Engineers

. U.S. Fish and Wildlife Service

County Floodplain Coordinator

Office of Oil and Gas RECEIVED

Office of Oil and Gas

DCT 1 4 2014

WV Department of Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

> Hard Rock Exploration Inc. Well Operator: mornestrance

By: Its:

Executive Vice President

WW-2B1	
(5-12)	

Well No	HR-Oil 1	
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West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Standard Labs or Sturm Lab

Sampling Contractor

Standard Labs or Sturm Lab

Well Operator Hard Rock Exploration, Inc.

Address

1244 Martins Branch Road

Charleston, WV 25312

Telephone

304-984-9004

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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> > OCT 1 4 2014

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WATER NOTICE FOR HARD ROCK EXPLORATION, INC. WELL HR-OIL 1

Arthur Byrd PO Box 18 Sod, WV 25564 MUST TEST AT LEAST ONE WATER SOURCE. MUST TAKE SAMPLE BEFORE SPUDDING WELL.

grum

Wilma Smith 8 Vespers Way Bluffton, SC 29910

Paul Hughes 853 Thunderbird Dr. Charleston, WV 25306

Hubert Pauley 114 Donnelly Fk. Sod, WV 25564

Jerry Asbury 645 Summer Way Charleston, WV 25309

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API Number 47 - 043	
Operator's Well	No. HR-Oil 1

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Hard Rock	Exploration, Inc.		OP Code 494464205	i -
Watershed (HUC 10) Donl	ey Fork of Hazlett Fork	Quadrangle	Alum Creek, WV 7.5'	
Elevation 1120'	County		District Duval	
Will a pit be used for drill cu If so, please describ	re than 5,000 bbls of water to computtings? Yes X No De anticipated pit waste: Drill Cut	ttings		
Proposed Disposal	er be used in the pit? Yes X Method For Treated Pit Wastes: and Application			ter 20 MIL.
R	Inderground Injection (UIC Perm Leuse (at API Number 110096, 870472 Off Site Disposal (Supply form WV Other (Explain	29, 3503009, 8704712, 350 W-9 for disposal loc	03011, 3503008, 3503005, W cation)	/ell will be noted in DMR)
Will closed loop system be a	ised? No			
	for this well? Air, freshwater, oil		Offic	RECEIVED e of Oil and Gas
	ing medium? Soap, KCI, or Clay St			DCT 1 4 2010
	od? Leave in pit, landfill, removed	TATAL DIDOCRAFA		
Action to a large of the sail and a find a contract of the	an to solidify what medium will be	The state of the s	me sawdust) lime/ir/	Department of
	name/permit number?			
on August 1, 2005, by the O provisions of the permit are law or regulation can lead to I certify under per application form and all a obtaining the information,	nalty of law that I have personall ttachments thereto and that, base I believe that the information is e information, including the possible.	rirginia Department of any term or concept with the second of the second	of Environmental Protect dition of the general perion of familiar with the info of those individuals im complete. I am aware	ction. I understand that t mit and/or other applical primation submitted on the nmediately responsible
Company Official Title Ex				ZH MY C
Company Official Title_EX	COUNTY VIOLET TOSIGETIE			JOAN L JOAN L State of V Commission E
Subscribed and sworn before	Joan L. Beans	Septembe	Notary Public	IC OFFICIAL SEATE BEANE Vest Virginia O CHARLESTON 11/2/20
My commission expires	Sept. 6, 2022			25312

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Proposed Revegetation Treatme	nt: Acres Disturbed 0.	.48 Prevegetation p	н 5.5
Lime 3	_ Tons/acre or to correc	t to pH 6.5	
Fertilizer (10-20-20 or	equivalent) 500	lbs/acre (500 lbs minimum)	
Mulch Hay/Straw/Paper	(Paper at 1600 lbs/acre)	Tons/acre	
42.63		Seed Mixtures	
Area l			rea II
Seed Type	lbs/acre 15	Seed Type Red Top	lbs/acre 15
Red Top Orchard Grass	25	Orchard Grass	25
Perennial Rye/Crimson F			
Annual Rye	40	Annual Rye	40
Drawing(s) of road, location,pit Photocopied section of involved		and application.	
Photocopied section of involved	7.5' topographic sheet.	and application.	
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