

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

August 20, 2013

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-10501368, 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 teel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: HR-495A

Farm Name: MCCLUNG, KENNETH & ELIKA

API Well Number: 47-10501368
Permit Type: Vertical Well

Date Issued: 08/20/2013

WW - 2B (Rev. 8/10)

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

I) Mall Operate					105	06	271
1) Well Operato	r: Hard	Rock Exp	oloration, Inc.	494464205	Wirt	Spring Creek	Burning Springs, WV 7.5
				Operator ID	County	District	Quadrangle
) Operator's W	Vell Numb	er: HR-4	95		3) Elevation:	1029'	
) Well Type: (a	a) Oil	or Ga	s <u>X</u>				
(b) If Gas:	Produ	ction X/ Un	derground Sto	rage		
		Deep	/ 8	Shallow X			
) Proposed To	tal Depth fresh wa	: 8350'TMD ter strata	depths: Pittsburg	Formation at F			
							Co.
) Approximate	coal sea	m depths	None noted in	n offset wells		10	-Coly
0) Approximat	e void de	pths,(coa	al, Karst, other):	None			
 					lo	W Depl. of a of	4
 Approximat Does land of Describe promit iii 3/8" hole or 	posed we	ll work ar	id fracturing meth	nods in detail (a	ttach additiona	al sheets if nee	dod Pro
	curve-4900	'MD/ 4560	'TVD , 4050'VS, 8	350'TMD	i Toarrin Tala, Di	III Dottom Hole (VII 7.11
	curve-4900	'MD/ 4560	ii, Dilli o o/4 Tiole	350'TMD	i Toarrin Tala, Di	III Dottom Hole (VII 7.11
n 4.5" casing with o	curve-4900	'MD/ 4560 cker comple	TVD , 4050'VS, 8 tion (Depths noted at	350'TMD bottom) -Set packe	ers, cement on top	packer, Fracture	with Nitrogen ga
n 4.5" casing with o	curve-4900 open hole pad	'MD/ 4560 cker comple	TVD , 4050'VS, 8 tion (Depths noted at	350'TMD bottom) -Set packet	ers, cement on top	packer, Fracture	with Nitrogen ga
3) TYPE S	curve-4900 open hole pac	'MD/ 4560 cker comple CA ATIONS Grade	TVD , 4050'VS, 8	BING PROGR	ers, cement on top AM INTERVALS	packer, Fracture	with Nitrogen ga
n 4.5" casing with o	SPECIFIC Size 13 3/8"	'MD/ 4560 cker comple CA ATIONS Grade LS	TVD , 4050'VS, 8 tion (Depths noted at SING AND TU) Weight per ft 37#	BING PROGR FOOTAGE For Drilling	ers, cement on top AM INTERVALS Left in Well 30'	packer, Fracture CEMEN Fill -up (Cu.	with Nitrogen ga
an 4.5" casing with company of the c	curve-4900 ppen hole pace	'MD/ 4560 cker comple CA ATIONS Grade LS	TVD , 4050'VS, 8 tion (Depths noted at SING AND TU	BING PROGR FOOTAGE	AM INTERVALS	packer, Fracture	with Nitrogen ga
an 4.5" casing with company of the c	SPECIFIC Size 13 3/8"	'MD/ 4560 cker comple CA ATIONS Grade LS	TVD , 4050'VS, 8 tion (Depths noted at SING AND TU) Weight per ft 37#	BING PROGR FOOTAGE For Drilling	ers, cement on top AM INTERVALS Left in Well 30'	packer, Fracture CEMEN Fill -up (Cu.	with Nitrogen ga
TYPE S Conductor Fresh Water Coal	SPECIFIC Size 13 3/8"	MD/ 4560 cker comple CA ATIONS Grade LS LS LS	Weight per ft 37#	BING PROGR FOOTAGE For Drilling 30' 920'	INTERVALS Left in Well 30' 920'	packer, Fracture CEMEN Fill -up (Cu. 455cuft-	with Nitrogen ga
n 4.5" casing with o	SPECIFIC Size 13 3/8" 9 5/8"	MD/ 4560 cker comple CA ATIONS Grade LS LS LS	Weight per ft 26#	BING PROGR FOOTAGE For Drilling 30' 920'	ers, cement on top AM INTERVALS Left in Well 30' 920'	packer, Fracture CEMEN Fill -up (Cu. 455cuft-	with Nitrogen ga

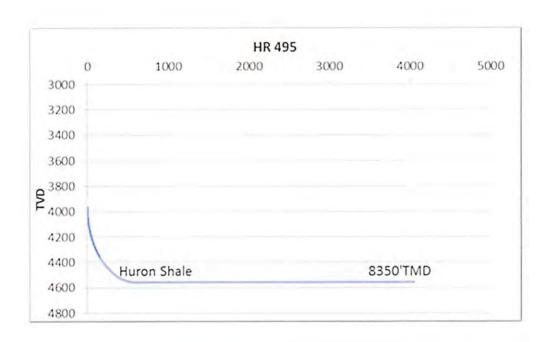
Packers: Kind: Mechanical Set open hole packer

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

Depths Set Place 16stg open hole packer system from 4430'MD- 8350' (245' spacing per stg) , 17th packer at 2600' Dump 130cuft 08/23/2013

NOTICE

WELLBORE GRAPH HARD ROCK EXPLORATION WELL NO. HR-495



HARD ROCK EXPLORATION, INC. 1244 MARTINS BRANCH ROAD CHARLESTON, WV 25312

7-25-13



Received
AUG 2 2019
08/23/2013

WV Dept. of Environmental Protontia

WW-2	2A
(Rev.	6-07)

depprivacyofficer@wv.gov

1). Date: July 24, 2013

2.) Operator's Well Number HR-495
State County Permit

3.) API Well No.: 47- 105 - 01368

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

	Kennith McClung		Name	None	
Address	805 Fairview Ridge		Address		
	Palestine, WV 26160				
(b) Name	Keith Miller, et al.		(b) Coal C	wner(s) with Declaration	. /
Address	4485 Parkersburg Road	V	Name	Kennith McClung	W
	Reedy, WV 25270		Address	805 Fairview Ridge	
			_	Palestine, WV 26160	
(c) Name			Name	Keith Miller, et al.	V
Address			Address	4485 Parkersburg Road	
				Reedy, WV 25270	
6) Inspector	Joe Taylor	1	(c) Coal Le	essee with Declaration	
Address	497 Claylick Road	10/	Name	None	
141	Ripley, WV 25271	24	Address		
Telephone	(304)380-7469	-	_	A	
		PERSONS NA	MED ABOVE T	AKE NOTICE THAT:	
Included is th				acts by which I hold the right to	extract oil and gas
I certify t	nat as required under ation plat, and accom Personal Servic Certified Mail (F	er Chapter 22-6 panying docum- ce (Affidavit atta Postmarked pos	of the West Virg ents pages 1 thro ched) tal receipt attache	on 8(d) of the Code of West Virginia Code I have served copie ugh on the above named ped)	es of this notice and
I certify to application, a local X I have real issued under this I certify unthis application for obtaining the information I am aware	nat as required under the strong plat, and accommendation plat, and accommendation plat, and accommendation (Possible Publication (Nossible Publication). The strong plat and all attachmendation, I believe that accommendation and all attachmendation, I believe that accommendation and accommendation and all attachmendation, I believe that accommendation and accommendation (Possible Possible Possib	er Chapter 22-6 npanying docum- ce (Affidavit attal Postmarked pos- tice of Publicatio hapter 22-6 and that I have persents, and that bat the information	of the West Virgents pages 1 throched) tal receipt attached attached) d 35 CSR 4, and conally examined ased on my inquinistrue, accurate	ninia Code I have served copie ugh on the above named ped) I agree to the terms and contain am familiar with the information of those individuals immediate.	es of this notice and parties by: ditions of any permit mation submitted on ately responsible for
I certify the application, a local or application, a local or application, a local or application for application for obtaining the information of the application of the application for applications application for applications appl	nat as required under the strong plat, and accommendation plat, and accommendation plat, and accommendation (Possible Publication (Nossible Publication). The strong plat and all attachmendation, I believe that accommendation and all attachmendation, I believe that accommendation and accommendation and all attachmendation, I believe that accommendation and accommendation (Possible Possible Possib	er Chapter 22-6 npanying docum- ce (Affidavit atta- costmarked pos- tice of Publication chapter 22-6 and that I have persents, and that ba at the information inficant penalties	of the West Virgents pages 1 throched) tal receipt attached attached) d 35 CSR 4, and conally examined ased on my inquinistrue, accurate a for submitting fa	inia Code I have served copie ugh on the above named ped) I agree to the terms and con and am familiar with the information and complete. Ise information, including the periods.	es of this notice and parties by: ditions of any permit mation submitted on ately responsible for
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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

SURFACE OWNER WAIVER

County	Wirt	Operator	Hard Rock Exploration, Inc.
		Operator well number	HR-495

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 ar range 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.

List of Water Testing Laboratories. 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, as urvey plat, and as 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.

- Paritin aan 3 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
FOR EXECUTION BY A NATURAL PERSON	FO	R EXECUTION	BY A CORPORA	ATION, ETC.
How GM. Cloud Date 7/3	Company Name			
Signature	By Its	-	-	Date
Kennith EMª Clung		-	Reco	- Date
Print Name			000	Ved
		Signature	WW.	Date
			2	
		WDE	Office of Oil and Ga	08/23/2013
			-nvironmental i	ent-
				ection

Print Name

		SURFACE	OWNER WAIVER	
County	Wirt	0	perator	Hard Rock Exploration, Inc.
County	-		perator well number	HR-495
			E OMNIEDO MAMED ON	DACE MINO A
	INS	STRUCTIONS TO SURFAC	E OWNERS NAMED ON	PAGE WWZ-A
If the surface appeared on be the only permits are	e tract is owned the Sheriff's ta: owner who will valid for 24 mon nmediately if yo	by more than three person ticket on the land or becau actually receive these mat ths. If you do not own any	ns, then these materials wase you actually occupy the erials.) See Chapter 22 interest in the surface traces notify the well operator COUIRED TO FILE ANY C	
Department 601 57 th St. Charleston, (304) 926-04	WV 25304 150		aw requires these materia	als to be served on or before the date the
operator files be filed in person be sure of the handling. If the planned Conwell operator from the approximate The 1) 2) 3) 4) 5)	s his Application erson or receive he dat e. C hed you have been work described ments must be r's name and wolication. You must be the proposed with the pro	d in the mail by the Chief's of the mail by the Chief's of the with your postmaster to contacted by the well operation these materials, then the rein writing. Your comme cell number and the approximal ay add other documents, surpressed work will constitute a haze and sediment control plan is occur to publicly owned land yell work fails to protect fresh as committed a substantial	DAYS after the filing date office by the time stated a ens ure a dequate d eliver tor and you have signed a permit may be issued at a nts must include your nar nate location of the proposich as sketches, maps or pwell work permit based on and to the safety of persons not adequate or effective is or resources; in water sources or supplie violation of a previous persons.	to file your comments. Comments must above. You may call the Chief's office to by time or to ar range special expedited a "voluntary statement of no objection" to any time. The address and telephone number, the sed well site including district and county photographs to support your comments. In comments on the following grounds: The second of the substantial violation of one or or the second of the substantial violation of one or
If yo	ou want a cop	y of the permit as it is is hief.	sued or a copy of the o	ate or seek review of the violation". order denying the permit, you should er testing laboratories which you can hire
		h water quality prior to and a	after drilling. Contact the	Chief to obtain a copy.
Application f	or a Well Work rm WW2-B, a s	have read the instructions t Permit on Form WW2-A, an	d attachments consisting	TION at I have received copies of a Notice and of pages 1 through including a work cosed well work on my surface land as
I fur			nned work described in the	ese materials, and I have no objection to
FOR EXECU	JTION BY A NA	TURAL PERSON	FOR EXE	CUTION BY A CORPORATION, ETC.
Elika	M:M	C Clumy Date 7-	36-13 Company Name	
KI'VO	Signature M	c Clubs	By Its	Po Date

Signature Date

Wy Dent Office of On 08/23/2013

WV Dept. of Environmental Protection

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Wirt	LID 405
Operator Hard Rock Exploration, Inc.	Operator's Well Number HR-495
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 we 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 n, provided, the well operator has complied with all applicable and the governing regulations.
FOR EXECUTION BY A NATURAL PERSON North Company Date Signature	FOR EXECUTION BY A CORPORATION, ETC. Company Name By
0.9.13.3.3	Its Date
	Signature Date



COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Wirt		115 105
Operator Hard Rock Exploration, Inc.	Operator's Well Number	HR-495
INSTRUCTIONS TO	COAL OPERATOR, OWNER	R, OR LESSEE
To the coal operator, owner, or any objection you wish to make or are with the Chief of the Office of Oil and Oby the Office. Mail objections to:	required to make by WV Cod	2-A. You are hereby notified that e 22-6-15, 16 or 17, must be filed after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE	n	
Charleston, WV 25304 (304) 926-0499 extension 1654		
	WAIVER	
The undersigned coal operator location has examined this proposed w location, the well location has been add work proposed to be done at this location requirements of the West Virginia Code	ell location. If a mine map ex ded to the mine map. The un on, provided, the well operato	dersigned has no objection to the or has complied with all applicable
FOR EXECUTION BY A NATURAL PERSON CLUB M. M. CLUMAY DA	te 7-30-13Company	CUTION BY A CORPORATION, ETC.
Signature	By Its	Date
	Sign	nature Date

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. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X Agent Address B. Received by (Printed Name) C. Date of Delive Nenneth M Clana 13/2012
1. Article Addressed to:	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
Kennith and Elika McClung 805 Fairview Ridge Palestine, WV 26160	
r diestille, WV 20100	3. Service Type ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandis ☐ Insured Mail ☐ C.O.D.
	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from service label, 7011 2000	0001 7717 5258
PS Form 3811, February 2004 Domestic F	
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. Agent Addresse
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. Agent Addresse
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 Agent Addresse B. Received by (Printed Name) C. Date of Deliver D. Is delivery address different from item 1? Yes
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: Keith Miller et al	COMPLETE THIS SECTION ON DELIVERY A. Signature X Agent Addresse B. Received by (Printed Name) C. Date of Deliver D. Is delivery address different from item 1? Yes
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:	COMPLETE THIS SECTION ON DELIVERY A. Signature X
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: Keith Miller et al 4485 Parkersburg Road	COMPLETE THIS SECTION ON DELIVERY A. Signature X



08/23/2013

Operator's Well Number HR-49	Operator's	Well	Number	HR-495
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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
Kennith E. & Elika M. McClung	Hard Rock Exploration, Inc.	% of 1/8	239/1
Russell E. & Polly A. Howdyshell	Hard Rock Exploration, Inc.	% of 1/8	240/304

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
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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: By:Its: Executive Vice President

Wy Dept. of Environmental Protection

WW-2B1
(5-12)

Well No.	HR-495	
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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 Sampling Contractor		Standard Labs or Sturm Lab
		Standard Labs or Sturm Lab
Well Operator	Hard Rock Exploration, Inc.	
Address	1244 Martins Branch Road	
	Charleston, W	/V 25312
Telephone	(304)984-900	A

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.

NOTICE

WATER TESTING HARD ROCK EXPLORATION WELL NO. HR-495A

THE FOLLOWING WATER SOURCES WERE IDENTIFIED WITHIN 2000' OF THE ABOVE PROPOSED WELL SITE:

KENNITH & ELIKA McCLUNG 805 FAIRVIEW RIDGE PALESTINE, WV 26160

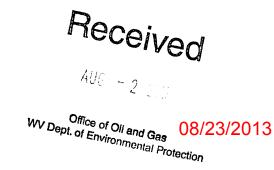
DANIEL BRINDO 647 FAIRVIEW RIDGE PALESTINE, WV 26160

WILLIAM DUNBAR
1909 SPENCER RD.
RIPLEY, WV 25271
OR
CHERI TAYLOR &
TAMERA BUTTA
PO BOX 173
ELIZABETH, WV 26143

DAVID H. SUIT, ET UX, KEITH MILLER 4485 PARKERSBURG RD. REEDY, WV 25270

TRUE LINE SURVEYING, INC. 6211 FAIRVIEW DRIVE HUNTINGTON, WV 25705

07-11-13



WW-9 (5/13)

	Page of
API Number 47 - 105	
Operator's Well 1	No. HR-495

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Hard Rock E	xploration, Inc.	OP Code _49446	64205	_
Watershed (HUC 10) Buck I	Run of Spring Creek	Quadrangle Burning Springs, V	WV 7.5'	
Elevation 1029'	County_Wirt	District_ Sprin	ng Creek	
Will a pit be used for drill cut If so, please describe	tings? Yes X No	ngs		- 5
	lethod For Treated Pit Wastes:	No If so, what ml.?10-or	greater 20 Mil	
Lai Un Rei Off	nd Application derground Injection (UIC Permit use (at API Number 8704669, 3502970, f Site Disposal (Supply form WW-	Number_UIC2D0190460, 341672968; 3502987, 3502999, 8704700, 8704698, 8704703, 870 -9 for disposal location)	04713 - Well will be noted in DI	MR_)
Will closed loop system be us	ed? No			
Drilling medium anticipated f	or this well? Air, freshwater, oil b	ased, etc. Air		
-If oil based, what ty	pe? Synthetic, petroleum, etc			
Additives to be used in drillin	g medium? Soap, KCl, or Clay Stay	1		
Drill cuttings disposal method	? Leave in pit, landfill, removed o	offsite, etc. Leave in pit		
-If left in pit and plar	to solidify what medium will be u	ised? (cement, lime, sawdust) Lime		
-Landfill or offsite na	ame/permit number?			
on August 1, 2005, by the Off provisions of the permit are elaw or regulation can lead to elaw or regulation can lead to elaw or regulation form and all atta obtaining the information, I	ice of Oil and Gas of the West Virginforceable by law. Violations of enforcement action. Ity of law that I have personally achments thereto and that, based believe that the information is truinformation, including the possibility. Monica Stepher's Communication of the communicati	ice Mece	Protection. I understand permit and/or other elements in mediately resparate that there are	and that the applicable ated on this onsible for
	H	July WV Dept. of En 20 or the		=
Subscribed and sworn before	me this 29th day of (Notary Pub	The section of the	NOTARY PUBLIC OFFICIAL SEAL JOAN L. BEANE State of West Virginia
My commission expires	Sept. 6, 2022	Trotally File	N Finish N	Ay Commission Expires Sept. 6, 20, WORLD AND STON, W.

Form WW-9	Operator's Well No. HR-495
Proposed Revegetation Treatment: Acres Disturbed 0.68	Prevegetation pH 5.5
Lime Tons/acre or to correct to ph	
500	s/acre (500 lbs minimum)
Hay/Straw/Paper (Paper at 1600 lbs/acre) Tons/	acre
	ed Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
Red Top 15	Red Top 15
Orchard Grass 25	Orchard Grass 25
Perennial Rye/Crimson Red Clover 25 Each	Perennial Rye/Crimson Red Clover 25 Each
Annual Rye 40	Annual Rye 40
Plan Approved by: Comments:	
Title: Inspects	Date: 8-1-13
Field Reviewed? (X) Yes ()No Recoi
 , ===	
	Peceived

WV Dept. of Environmental Protest 23/2013

