

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, Goyernor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

July 30, 2014

WELL WORK PERMIT

Horizontal Well

This permit, API Well Number: 47-3503022, 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

Operator's Well No: HR-466

Farm Name: HARRIS, ALAN L. & KARLA L.

API Well Number: 47-3503022

Permit Type: Horizontal Well Date Issued: 07/30/2014

Promoting a healthy environment.

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. 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 within 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. This permit is being conditioned to address the possibility of flooding in the area of this well. Any tanks stored on this location must be securely anchored in cement to prevent the loss of tanks should a flood occur. In addition, cages must be placed around the well head to prevent debris from damaging the well head.

WW - 2B (Rev. 8/10)

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

			35	5	362
1) Well Operator:	Hard Rock Exploration, Inc.	494464205	Jackson	Washington	Gay, WV 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well	Number: HR-466		3) Elevation:	635'	-U84
4) Well Type: (a) (Oil or Gas X			CK	(15484)
(b) I	f Gas: Production X / Unde	erground Sto	rage		650
	Deep/ Sh	nallow X			
6) Proposed Total 7) Approximate fre 8) Approximate sa	esh water strata depths: 380' alt water depths: 1595'	ormation at F	Proposed Tar Proposed Total	The state of the s	
9) Approximate co	pal seam depths: None noted in	offset wells			
10) Approximate v	oid depths,(coal, Karst, other):	None			
11) Does land cor	ntain coal seams tributary to activ	ve mine? N	0		
12) Describe propo	sed well work and fracturing metho	ds in detail (a	ttach additiona	al sheets if nee	eded)
Drill 12 3/8" hole on ai	r/ Freshwater foam; Drill 8 3/4" hole or	n Air/Freshwate	r foam/Fluid; Dr	rill Bottom hole	on Air.
KOP-3600', Land cur	ve-4540'MD/ 4200'TVD , 3700'VS, 76	40'TMD			
Run 4.5" casing with oper	n hole packer completion (Depths noted at t	oottom) -Set pack	ers, cement on to	packer, Fracture	with Nitrogen ga
Town			4.22		1:01

13) CASING AND TUBING PROGRAM

TYPE	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	CEMENTA
	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#	570'	570'	CTS V
Coal						
Intermediate	7"	LS	19#	2150'	2150'	CTS V
Production	4 1/2"	N-80	11.6#	7640'	7640'	130cuft
Tubing						
Liners						

Packers: Kind: Hydraulic set open hole packers

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

Depths Set Place 15 stg open hole packer system from 4060'MD-7640' (238' spacing per stg) , 16th packer at 2450' Dump 130cutt cmit

WW-2	2A
(Rev.	6-14)

1). Date: June 30, 2014

2.) Operator's Well Number HR-466

> State County

Permit

3.) API Well No .:

47-

035

03022H

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

4) Surface Ow	vner(s) to be served:	/	5) (a) Coal Op	erator	
(a) Name	Alan L. & Karla H	arris /	Name	None	
Address	3861 Fisher Rida		Address		
1.3430,534	Kenna, WV 2524				
(b) Name	TOTITIO, VVV LOL	10	(b) Coal C	wner(s) with Declaration	
Address	-		Name	Alan L. & Karla Harris	W
71001000	-		Address	3861 Fisher Ridge Road	V
	-		_ Address	Kenna, WV 25248	
(c) Name			Name	Reilia. VVV 25246	
Address			Address	·	
Address	-		_ Address		
6) Incocator	Jamie Ctayana		- (a) Coal I	essee with Declaration	
6) Inspector	Jamie Stevens	m-PJ L	-		
Address	HG 62 Box 1 C		Name Address	None	
TORSEGNA	Kenna, WV 2524	18	Address		
Telephone	(304)206-7775				
6.66.100				AKE NOTICE THAT:	NOTE WITH STORY ASSESSMENT
	he lease or leases or o	ther continuing	contract or contra	acts by which I hold the right to ext	ract oil and gas
OR		h. Obsals 22	Adiala C Castia	- 0/d) - f 1h - O-d f 1Mt 1/::-:-	. / 0\
				n 8(d) of the Code of West Virginia	
				inia Code I have served copies of	
application, a loc				ugh on the above named parti	es by:
V	Personal Service		the second secon	٠,	
	Certified Mail (Po			a)	
I bearing	Publication (Noti			I make to the town and soudist	
issued under this		apter 22-6 and	35 CSK 4, and	I agree to the terms and condition	ons or any permit
		at I have nere	nally examined	and am familiar with the informat	ion submitted on
				y of those individuals immediately	
	ormation, I believe that				, reappriciale for
				se information, including the poss	ibility of fine and
imprisonment.					
nantana NO	TARY FUBLIC OFFICIAL SEAL	Well Operator	Hard Rock E	xploration, Inc.	
OT TIST	JOAN L. BEANE	By:	monus		
	State of West Virginia	Its:	Executive Vic	ce Président	
My Con	nmission Expires Sept. 6, 2022	Address:		Branch Road	
WIRLY TO THE WARRY	S ERANCH RO. CHARLESTON, WV 25312		Charleston, V		
- Charles Charles - Charles		Telephone:	(304)984-900		
A (Email:	monica@har	drockexploration.com CEIVE	D.
Subscribed and	sworn before me this	30 Th day of	June	2074	nd Gae
	() 9.2	2.4		Children of Children	no Gas
	- Joan 6	10 ane		Notary Public	144
My Commission		2022		JUL 1 4 20	114
Oil and Gas Privacy	Notice				
-	A CONTRACTOR OF THE CONTRACTOR	TRUBERTON SECURITY			ient of

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 in the normal cou depprivacyofficer@wv.gov

SURFACE OWNER WAIVER

County	Jackson	Operator	Hard Rock Exploration, Inc.
		Operator well number	HR-466
		Salar Sa	

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 FIFTEN (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.

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.

<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, 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.

FOR EXECUTION BY A NATURAL PERSON FO			OR EXECUTION BY A CORPORATION, ETC.		
aSignature	Date	7/9/14	Company Name By	RECEIVED Office of Oil and Gas	
Alan L. Harris			Its	JUL 1 4 2014	Date
Print Name				WV Department of Signature ironmental Protection) Date

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Jackson			LID 400	
Operator Hard Rock Exploration, Inc.	Operato	or's Well Number	HR-466	
INSTRUCTIONS TO	COAL OPE	RATOR, OWNE	R, OR LESSEE	
To the coal operator, owner, or lany objection you wish to make or are rewith the Chief of the Office of Oil and Goby the Office. Mail objections to:	equired to r	nake by WV Co	de 22-6-15, 16 or 1	7, 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				
	WAI	VER		
location has examined this proposed we location, the well location has been added work proposed to be done at this location requirements of the West Virginia Code	ed to the m n, provided	ine map. The u , the well operat verning regulation	ndersigned has no or has complied wit	objection to the th all applicable
all Pate	1/9/14	Company Name		
Signature	4.71	Ву		Date
		Its		Date
		Sig	nature	Date
			RECEIV Office of Oil a	
			JUL 1 4 2	1014
			WV Departr Environmental	

SURFACE OWNER WAIVER

County	Jackson	Operator	Hard Rock Exploration, Inc.	
3.5-14		Operator well number	HR-466	

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NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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FOR EXECUTION BY A NATURAL PERSON.

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- 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;
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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.

TOTAL EXECUTION BY THE TOTAL TEXT			9,2	transactive to the second section of the	C 1 5
Xaula Olarris Signature	Date	7-8-14	Company Name By	RECEIVED Office of Oil and Gas	
Karla Harris			Its	JUL 1 4 2014	Date
Print Name				Signature WV Department of Environmental Protection	Date

FOR EXECUTION BY A CORPORATION, ETC.

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Jackson	_		LID 400	
Operator Hard Rock Exploration, Inc.	_ Operato	r's Well Numbe	_r HR-466	
INSTRUCTIONS TO	COAL OPE	RATOR, OWN	ER, 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 by the Office. Mail objections to:	required to n	nake by WV Co	de 22-6-15, 16 or 17	7, 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	on			
	WAIN	/ER		
location has examined this proposed volucation, the well location has been ad work proposed to be done at this locat requirements of the West Virginia Cod	Ided to the mi tion, provided e and the gov	ne map. The u , the well opera erning regulation	ndersigned has no o tor has complied wit	objection to the h all applicable
Signature		By		Date
				Date
		Sig	nature	Date
			RECEIVED	
			Office of Oil and	Gas
			JUL 1 4 2014	
			WV Departmen	

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	
Freda Wilson	Hard Rock Exploration, Inc.	% of 1/8	268/415	
Oscar and Cheryl Harris	Hard Rock Exploration, Inc.	% of 1/8	268/310	
John Wolfe, AIF for Virginia Wolfe	Hard Rock Exploration, Inc.	% of 1/8	268/595	
Emily Ann Starcher Pace	Hard Rock Land Services, LLC	% of 1/8	244/858	
Roderick L. Parsons	Hard Rock Land Services, LLC	% of 1/8	249/492	
Hard Rock Land Services, LLC	Hard Rock Exploration, Inc.	Misc. Assignment	466	

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 guired from the appropriate aut hority before the affected activity is initiated.

Well Operator:

By:Its:

Hard Rock Exploration, Inc. JUL 1 4 2014 Department of

Executive Vice President Environmental Protection

WW-2B1
(5-12)

Well No	HR-466	
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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.

> Department of Environmental Protection

NOTICE

WATER TESTING HARD ROCK EXPLORATION WELL NO. HR-466A

WATER SOURCE(S) IDENTIFIED WITHIN 2000' OF THE ABOVE PROPOSED WELL SITE.

Noble and Nancy Davis P O Box 23 Ripley WV 25271

Cindy Knopp 7802 Spencer Rd. Leroy WV 25252

Oscar Harris 7422 Spencer Rd. Leroy WV 25252 304 372-3957

Alan L. & Karla L. Harris 3861 Fisher Ridge Road **Kenna WV 25248** 304 531-1297

Mike Ross, Inc. P. O. Box 219 Coalton WV 26257

Craig E. & Lorna M. Canterbury 527 Frozen Camp Creek Gay WV 25244

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

06-20-14

MUST TEST AT LENST ONE (1).

WV Department of **Environmental Protection**

P	age of
API Number 47 - 035	
Operator's Well No.	HR-466

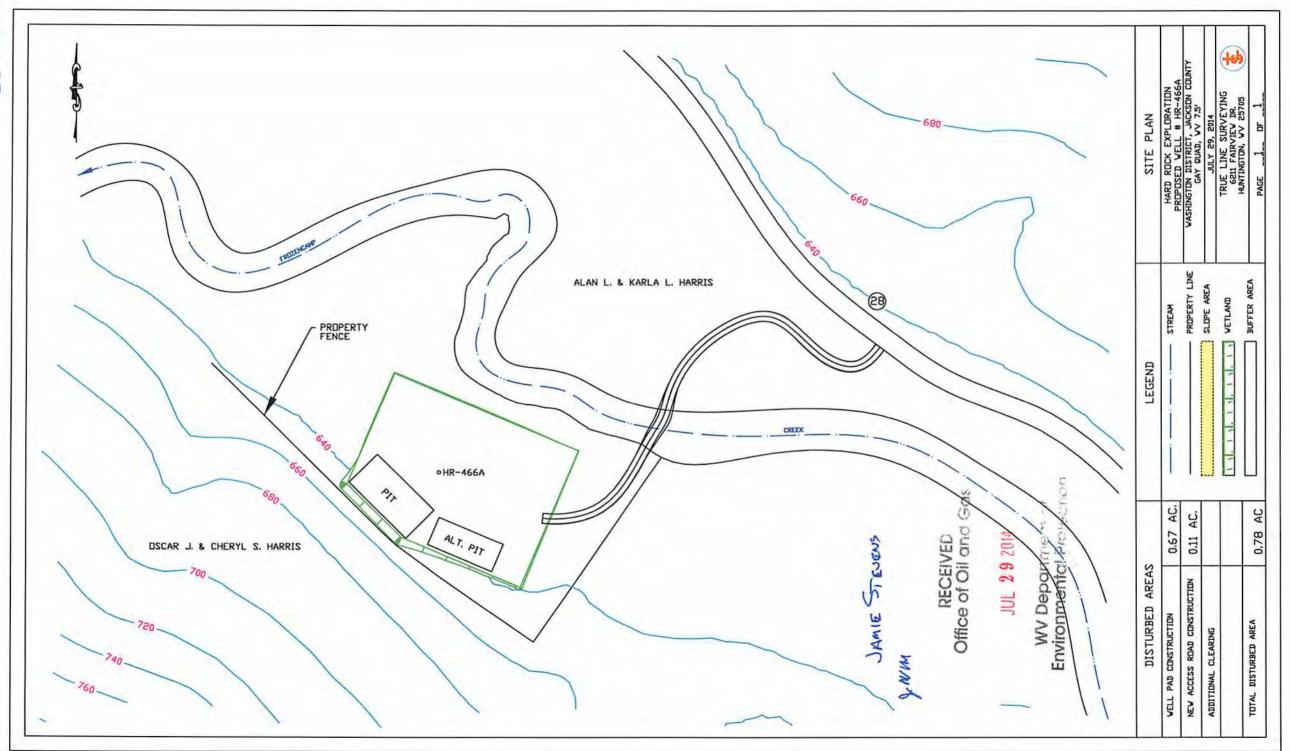
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

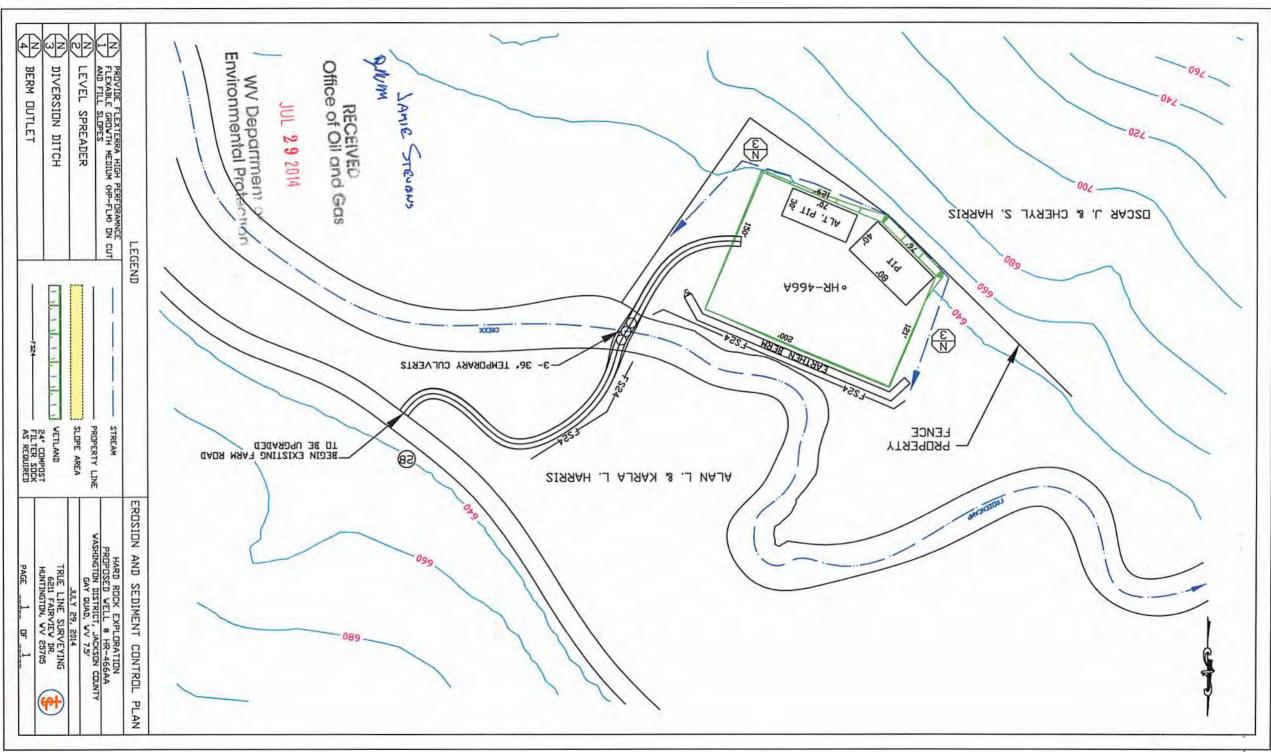
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Little	Mill Creek	Quadrangle _ G	Gay, WV 7.5'
Elevation 629	County		District Washington
Will a pit be used for drill cu	e than 5,000 bbls of water to com ttings? Yes X No e anticipated pit waste: Drill Cu		Il work? Yes No_X
Will a synthetic line	r be used in the pit? Yes X	No If so,	, what ml.? 10 or greater 20 AIL,
Proposed Disposal N	Method For Treated Pit Wastes:		
Ui Re	and Application inderground Injection (UIC Pern cuse (at API Number 8704696, 87047 If Site Disposal (Supply form W ther (Explain	01, 8704698, 8704703, 8704669,	3502970, 3502987, 8704700, Well will be noted in DMR
Will closed loop system be u	sed? No		
Drilling medium anticipated	for this well? Air, freshwater, oi	I based, etc. Air	
	ype? Synthetic, petroleum, etc.	2 : 1 / L DV	
	ng medium? Soap, KCl, or Clay S		
	d? Leave in pit, landfill, remove		oit
- 11 total all - 12 - 21 - 12	n to solidify what medium will b	9 Fig. 6 - 9 - 10 - 10 - 10 - 10 - 10 - 10 - 10	The state of the s
-Landfill or offsite r	name/permit number?		
on August 1, 2005, by the Of provisions of the permit are law or regulation can lead to I certify under pena application form and all attoobtaining the information, I	fice of Oil and Gas of the West venforceable by law. Violations enforcement action. alty of law that I have personal tachments thereto and that, bas	Virginia Department of of any term or conditi- ly examined and am it and on my inquiry of true, accurate, and co	RECEIV
Company Official (Typed N	ame) Monica Francisco		Office of Oil and
Company Official Title Exe			JUL 1 4 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Form WW-9		Operator's	Well No. HR-466	
Proposed Revegetation Treatme	ent: Acres Disturbed 0.78	Prevegetation	_{pH} 5.5	
Lime 3	Tons/acre or to correct to p	0 5		
Fertilizer (10-20-20 or		os/acre (500 lbs minimum)		
Mulch_Hay/Straw/Pape	r (Paper at 1600 lbs/acre) Tons	/acre		
	Se	ed Mixtures		
Area	r:		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:	finie Sta	rens		
Comments:				
Title: Impecto		Date: 1/3/2014	RECEIVED	
Title: Impecto Field Reviewed?	Yes (_		RECEIVED Office of Oil and Gas	

WV Department of Environmental Protection 08/01/2014







JUNE 20, 2014

TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705



PAGE

