

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

July 10, 2013

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-1502891, issued to RAVEN RIDGE ENERGY, 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

Chief

Operator's Well No: KING #8

Farm Name: HOLDSWORTH, WADE, .ET. UX.

API Well Number: 47-1502891
Permit Type: Vertical Well
Data Issued: 07/10/2013

Date Issued: 07/10/2013

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 30 mil thickness synthetic liner.

WW - 2B (Rev. 8/10)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION 5 05

1) Well Operato	or: Rave	n Ridge	Energy, LLC	494485865	Clay	Union	Elkhurst 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's Well Number: King #8 3) Elevation: 1,250'							
4) Well Type: (a	4) Well Type: (a) Oil_X or Gas _X						
(b) If Gas: Production X / Underground Storage							
		Dee	p/ S	Shallow X			
5) Proposed Target Formation(s): Berea Proposed Target Depth: 2,150' 6) Proposed Total Depth: 3000' Feet Formation at Proposed Total Depth: 2150' ? 7) Approximate fresh water strata depths: 200' 8) Approximate salt water depths: 1150' - 1650'						,150' o' ?	
9) Approximate	coal sea	m depth	s: No Coal Liste	ed in Title)		
			al, Karst, other):				
11) Does land of	contain co	oal seam	s tributary to act	ive mine? _	10		
			nd fracturing meth	ods in detail (a	ttach additiona	al sheets if nee	eded)
Drill, stimulate a XLINX or Foam		ew well.	7				
ALINA OF FOAIT	FIAC	-					
WIN /		ce 4	13				
13) TYPE S	PECIFIC		SING AND TUE	FOOTAGE	<u>AM</u> INTERVALS	CEMEN	JT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	
Conductor	9 5/8"	J55	29	380	380		440%
Fresh Water							7-1-7
Coal							
Intermediate	7"	J55	17	1950	1950	CTS	13/0 /10/18 11.1
Production	41/2"	J55	10.5	3000	3000'	per 34-4-	11.1
Tubing							
Liners							
Packers: Kind Size	s:						
Denths Set							

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07/12/2013

WW-2A (Rev. 6-07)

1). Date:	May 15, 2013		
2.) Operator's Well Number		King #8	
	State	County	Permit

015

47-

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

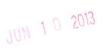
3.) API Well No.:

4) Surface ((a) Name Address	3827 Otter	dam Rd.	5) (a) Coal Ope Name Address	rator
(b) Name Address	waxerly.	VA 23840	(b) Coal Ov Name Address	vner(s) with Declaration
(c) Name Address			Name Address	
6) Inspector Address	Ed Gainer PO Box 821		(c) Coal Les	ssee with Declaration
Telephone	Spencer, WV 25276		Address	
200 September 20	TO THE	PERSONS NA	MED ABOVE TA	KE NOTICE THAT:
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X				
5230 Penns	STATE OF WEST VIRGINIA DANIELLE N. BAYS Cunningham Energy, LLC ryvania Avenue, Charleston, WV 25302 mission Expires February 10, 2015	Its: Address Telephone	Officer 3230 Pennslyvania Av Charleston, WV (304) 344-9291	renue
Subscribed and	d sworn before me this	agy - day of	Мау	, 2013
My Commissio	n Expires February 10	Bays)	Notary Public
Oil and Gas Priva	cy 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 depprivacyofficer@wv.gov

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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
Sandra Hobeck, Trustee	Cunningham Energy, LLC	1/8	51/862
	See Attached Agreeement		31/000

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 appropriate aut hority before the affected activity is initiated.

Well Operator:

By:Its:

Raven Ridge

Ryan E.M. Cunningham, Officer

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Office of Oil & Gas

07/12/2013

WW-2B1	
(5-12)	

Well No.	KING #8	

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 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 STURM ENVIRONMENTAL

Sampling Contractor

HUPP SURVEYING

Well Operator RAVEN RIDGE ENERGY, LLC

Address

3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Telephone

(304) 344-9291

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.



HUPP Surveying & Mapping P.O. BOX 647

GRANTSVILLE, WV 26147

(304) 354-7035 <u>hupp@frontiernet.net</u> FAX: (304) 354-6548

April 11, 2013

RE: Water Samples for King #8

There appears to be nine (9) potable water sources within 1,500' of King #8, therefore tests should be offered and samples taken as required.

- 1. Robert Wayne Taylor 1967 Bomont Rd. Bomont, WV 25030 Tax Map 17 Parcels 46 & 47
- 2. W C Mitchell, et ux 1999 Bomont Rd. Bomont, WV 25030 Tax Map 17 Parcels 47.2 & 48
- 3. Vincent Mitchell, et ux 2172 Bomont Rd. Bomont, WV 25030 Tax Map 17 Parcel 18
- 4. Lucille Hall
 2368 Bomont Rd.
 Bomont, WV 25030
 Tax Map 17 Parcel 19
- 5. Michael Mullins, et al
 2602 West Carla Vista Dr.
 Chandler, AZ 85224
 Tax Map 17 Parcels 20 & 60
- 6. Paul Woodard, et ux
 53 Decatur Ln.
 Bomont, WV 25030
 Tax Map 17 Parcel 58
- 7. Louvena Evans
 163 Decatur Ln.
 Bomont, WV 25030
 Tax Map 17 Parcel 58.4

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- 8. Ronald & Jeannie Evans 814 Virginia St. Charleston, WV 25030 Tax Map 17 Parcel 60.1
- 9. Billy P. Evans Jr., et ux 2527 Bomont Rd. Bomont, WV 25030 Tax Map 17 Parcels 58.2, 58.3 & 59
- 10. Wanda Sue Tomlin
 P.O. Box 9076
 Bomont, WV 25030
 Tax Map 17 Parcel 49

11. Tammy Taylor

549 Shelton Kel.

Bomont W 25030

Raven Ridge Energy, LLC. Form W-9 Page 1 of 1 King #8 Water Upper · Odessa 1500 King #8 TRAIL 934

HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net 1" = 1000' Elkhurst Quad Raven Ridge Energy, LLC. 3230 Pennsylvania Ave. Charleston, WV 25302 WW-9 (5/13)

	Page	of
API Number 47 -015	-	
Operator's Well	No. King #8	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

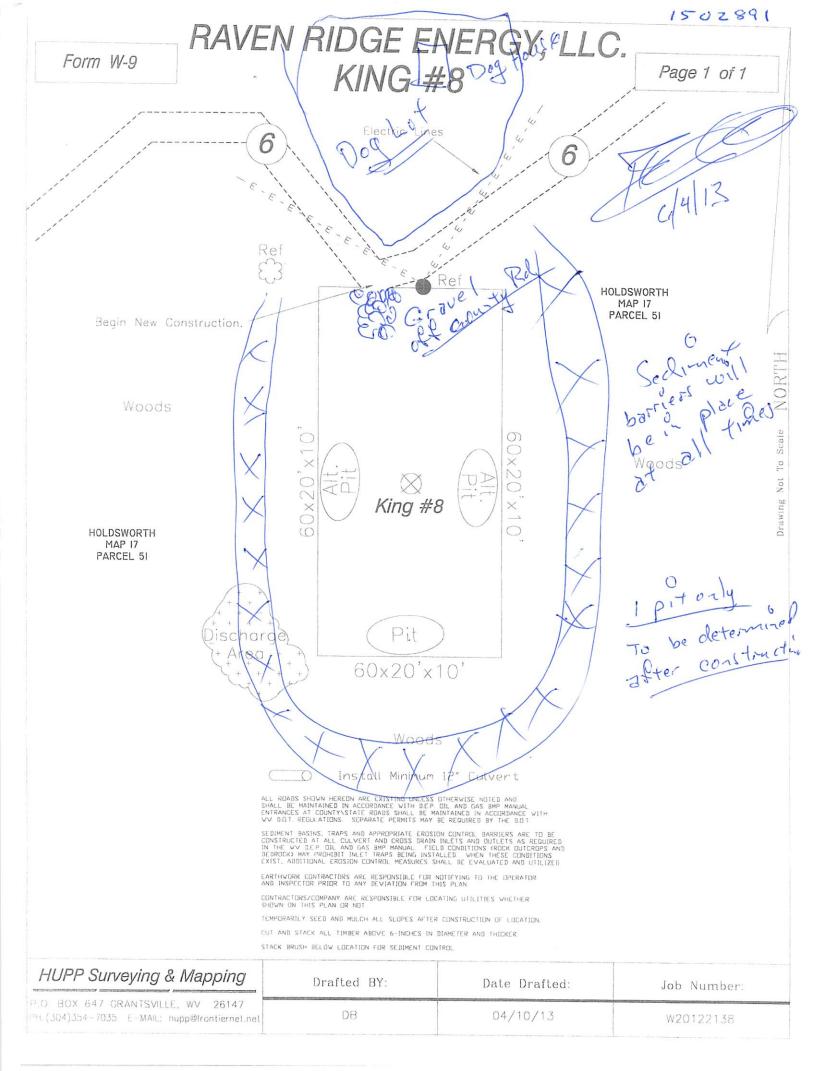
Operator Name Raven Ridge Energy, LLC	OP Code 494485865
Watershed (HUC 10) Tributary of Porter Creek	
Elevation 1,250' County Clay	District Union
Do you anticipate using more than 5,000 bbls of water to compl	ete the proposed well work? Yes No _X
Will a pit be used for drill cuttings? Yes X No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes X	No If so, what ml.? 30 ml
Proposed Disposal Method For Treated Pit Wastes:	
Reuse (at API Number Off Site Disposal (Supply form WW	
Will closed loop system be used? No.	
Drilling medium anticipated for this well? Air, freshwater, oil b	ased, etc. Air, freshwater
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium? Soap; KCl and/or Cla	
Drill cuttings disposal method? Leave in pit, landfill, removed of	offsite, etc. Leave in pit
-If left in pit and plan to solidify what medium will be	ised? (cement, lime, sawdust) Cement and Lime
-Landfill or offsite name/permit number? N/A	
on August 1, 2005, by the Office of Oil and Gas of the West Vir provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based	onditions of the GENERAL WATER POLLUTION PERMIT issued ginia Department of Environmental Protection. I understand that the any term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for ue, accurate, and complete. I am aware that there are significant ity of fine or imprisonment.
Company Official Signature	
Company Official (Typed Name) Ryan E. M. Curningham	
Company Official Title Officer	
Subscribed and sworn before me this day of	
Same n. baye	Notary Public
My commission expires 95/15/2013 2 10 2015	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA DANIELLE N. BAYS Cunninghem Energy, LLC 3250 Pennsylvenia Avenue, Charleston, WV 25302 My Commission Expires February 10, 2015

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07/12/2013

11N 1 0 2013

Form WW-9	Operator's Well No. King #8
	.5 Prevegetation pH
Mulch Hay - 2 Tons/	
Seed Type Area I Bs/acre Ky 31 - 40	Area II Seed Type Ibs/acre Orchid Grass - 15
Alsike Clover - 5 Annual Rye - 15	Alsike Clover - 5
Drawing(s) of road, location,pit and proposed area for land appropriately photocopied section of involved 7.5' topographic sheet.	
Plan Approved by: Comments: Cedure T	protection to be implace
zt all times.	
Title: In spector Field Reviewed? (X) Yes	Date: 6/4/13

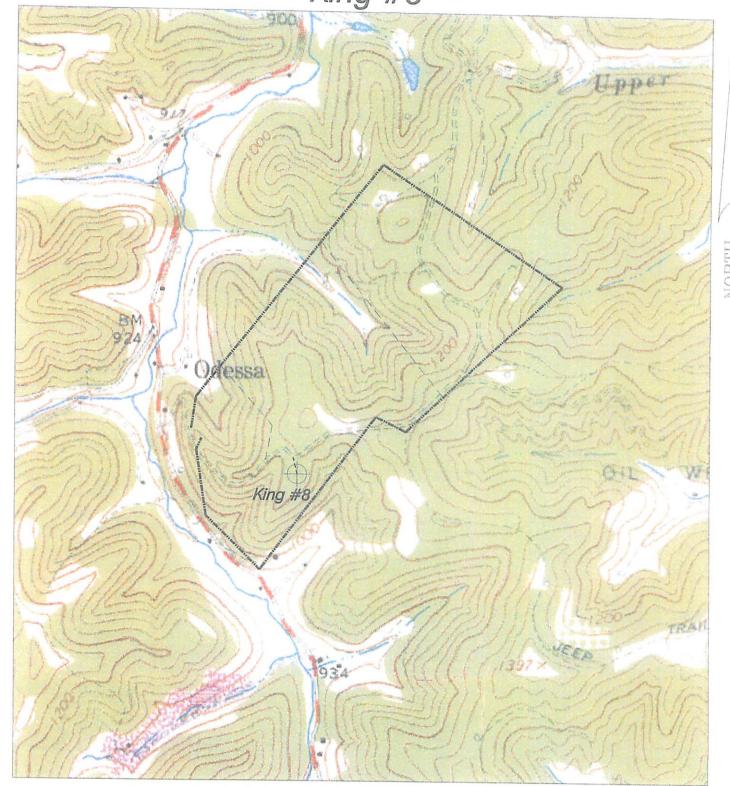




Form W-9

Raven Ridge Energy, LLC. King #8

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P.O. BOX 647 GRANTSVILLE, WV 26147 PH:(304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000' Elkhurst Quad Raven Ridge Energy, LLC. 3230 Pennsylvania Ave. Charleston, WV 25302

Office of Oil & Gas

