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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

June 26, 2013

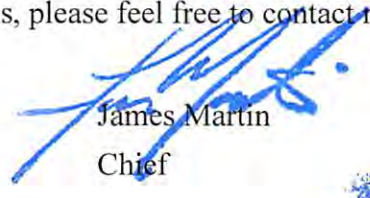
**WELL WORK PERMIT**  
**Vertical Well**

This permit, API Well Number: 47-1502890, 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 #14  
Farm Name: TAYLOR, ROBERT  
**API Well Number: 47-1502890**  
**Permit Type: Vertical Well**  
Date Issued: 06/26/2013

**Promoting a healthy environment.**

**06/28/2013**

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

1) Well Operator: Raven Ridge Energy, LLC      494485865      Clay      Union      Elkhurst 7.5'  
Operator ID      County      District      Quadrangle

2) Operator's Well Number: King #14      3) Elevation: 1,285'

4) Well Type: (a) Oil  or Gas   
 (b) If Gas: Production  / Underground Storage \_\_\_\_\_  
 Deep \_\_\_\_\_ / Shallow

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'

9) Approximate coal seam depths: No Coal Listed in Title

10) Approximate void depths, (coal, Karst, other): None

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)  
 Drill, stimulate and frac new well.  
XLINX or Foam Frac

*[Signature]* 5/23/13

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	9 5/8"	J55	29	380	380	CTS
Fresh Water						
Coal						
Intermediate	7"	J55	17	1970'	1970'	CTS
Production	4 1/2"	J55	10.5	3000'	3000'	1000
Tubing						
Liners						

Packers: Kind: \_\_\_\_\_  
 Sizes: \_\_\_\_\_  
 Depths Set \_\_\_\_\_

**Received**

JUN 3 2013

06/28/2013

WW-2A  
(Rev. 6-07)

1.) Date: May 15, 2013  
2.) Operator's Well Number King #14  
State 47- County 015 Permit -  
3.) API Well No.:

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

Check# 8021  
\$ 2600.00

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Robert Taylor</u> ✓	Name _____
Address <u>1967 Bomont Road</u>	Address _____
<u>Bomont, WV 25030</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Ed Gainer</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 821</u>	Name _____
<u>Spencer, WV 25276</u>	Address _____
Telephone <u>(304) 389-7582</u>	

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

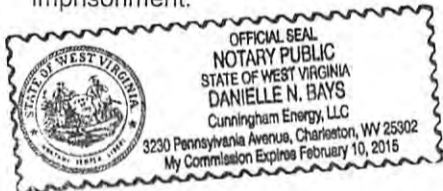
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties by:

- Personal Service (Affidavit attached)
- X   Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator Raven Ridge Energy, LLC  
 By: Ryan E.M. Cunningham  
 Its: Officer  
 Address 3230 Pennsylvania Avenue  
Charleston, WV  
 Telephone (304) 344-9291

Subscribed and sworn before me this 30<sup>th</sup> day of May, 2013

Danielle N. Bays

Notary Public

My Commission Expires February 10, 2015

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)

WV Dept. of Environmental Protection

06/28/2013

7011 2000 0001 0375 4489

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here  


K-14

Sent To Robert Taylor  
 Street, Apt. No., or PO Box No. 1967 Bomont Rd.  
 City, State, ZIP+4 Bomont, WI 25030

PS Form 3800, August 2006 See Reverse for Instructions

Surface owner notice.

Received

JUN 3 2013

Office of Oil and Gas  
WV Dept. 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
Sandra Hobeck, Trustee	Cunningham Energy, LLC See Attached Agreement	1/8	51/862

Received  
Office of Oil & Gas

JUN 10


**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 hereby acknowledges 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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator:  
By: Its:

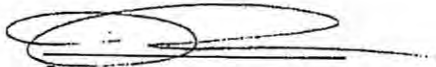
  
 \_\_\_\_\_  
 Raven Ridge  
 \_\_\_\_\_  
 Ryan E.M. Cunningham, Officer  
 \_\_\_\_\_

AGREEMENT


This agreement is made and entered into this 16<sup>th</sup> day of February, 2012 by and between Cunningham Energy, LLC, a West Virginia limited liability company and Raven Ridge Energy, LLC, a West Virginia limited liability company.

This agreement gives permission to Raven Ridge Energy to operate any leases (owned property or otherwise leased) maintained by Cunningham Energy, LLC for any and all past, current or future projects to be developed by or for Cunningham Energy, LLC.

CUNNINGHAM ENERGY, LLC

  
Owner

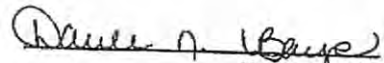
RAVEN RIDGE ENERGY

  
Officer

State of West Virginia  
County of Kanawha

The foregoing instrument was acknowledged before me this 16<sup>th</sup> day of February, 2012 by Ryan E. M. Cunningham, Officer of Raven Ridge Energy, LLC., a West Virginia Limited Liability Company, on behalf of the company.



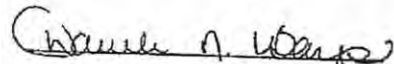
  
Notary Public

2/10/2015  
My Commission Expires

State of West Virginia  
County of Kanawha

The foregoing instrument was acknowledged before me this 16<sup>th</sup> day of February, 2012 by Ryan E. M. Cunningham, Owner of Cunningham Energy, LLC., a West Virginia Limited Liability Company, on behalf of the company.



  
Notary Public

2/10/2015  
My Commission Expires

Received

JUN 3 2013

WW-2B1  
(5-12)

Well No. KING #14

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 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.

Received

3 2013

Office of Oil and Gas  
West Virginia Department of Environmental Protection

06/28/2013

**HUPP Surveying & Mapping**  
P.O. BOX 647  
GRANTSVILLE, WV 26147  
(304) 354-7035 [hupp@frontiernet.net](mailto:hupp@frontiernet.net) FAX: (304) 354-6548

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April 11, 2013

RE: Water Samples for King #14

There appears to be one (1) potable water sources within 1,500' of King #14, 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

Received

JUN 3 2013

Office of Oil and Gas

West Virginia Department of Environmental Protection

06/28/2013



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BOMONT WV 25030

OFFICIAL USE

7011 2000 0001 0375 4397

Postage	\$	\$0.46	0732
Certified Fee		\$3.10	08
Return Receipt Fee (Endorsement Required)		\$2.55	
Restricted Delivery Fee (Endorsement Required)		\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$</b>	<b>\$6.11</b>	



Sent  Return Receipt  
 Street or PO  Certified Mail  
 City, State, ZIP+4®  Restricted Delivery  
 PS Form 3800, April 2012

Robert Wayne Taylor  
 1967 Bomont Road  
 Bomont, WV 25030

K-14

Instructions

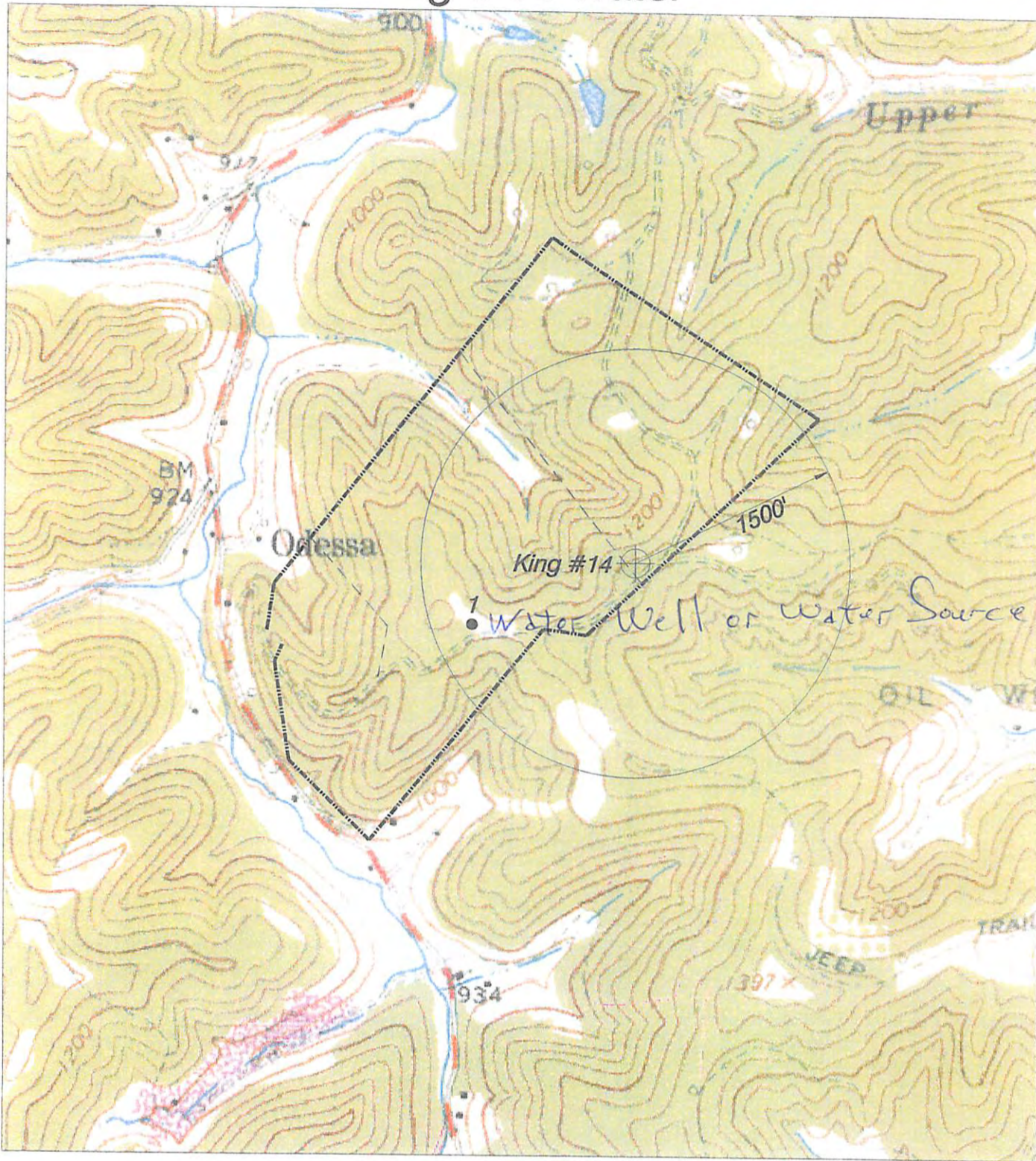
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JUN 3 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

06/28/2013

# Raven Ridge Energy, LLC. King #14 Water



### 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

Received 06/28/2013

JUN 3 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

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 Quadrangle Elkhurst 7.5'

Elevation 1.285' County Clay District Union

Do you anticipate using more than 5,000 bbls of water to complete 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: cutting & fluid from drilling & frac

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:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? No.

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air, freshwater

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? Soap; KCl and/or Clay, Soap

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement and Lime

-Landfill or offsite name/permit number? N/A

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature \_\_\_\_\_

Company Official (Typed Name) Ryan E. M. Cunningham

Company Official Title Officer

Subscribed and sworn before me this 29<sup>th</sup> day of May, 20 13

Danielle N. Bays Notary Public

My commission expires 05/15/2013 2/10/2015



Received

06/28/2013

Office of Oil and Gas  
WV Dept of Environmental Protection

Form WW-9

Operator's Well No. King #14

Proposed Revegetation Treatment: Acres Disturbed ~~3.5~~ 2.7 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 Ton lbs/acre (500 lbs minimum)

Mulch Hay - 2 Tons/acre

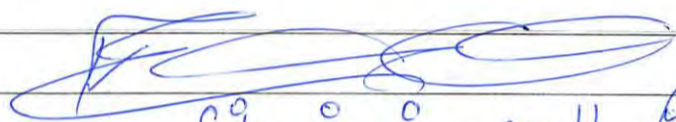
Seed Mixtures

Seed Type	Area I	lbs/acre
Ky 31 - 40		
Alsike Clover - 5		
Annual Rye - 15		

Seed Type	Area II	lbs/acre
Orchid Grass - 15		
Alsike Clover - 5		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: Site is in small flat of wooded area.

Title: Inspector

Date: 5/23/13

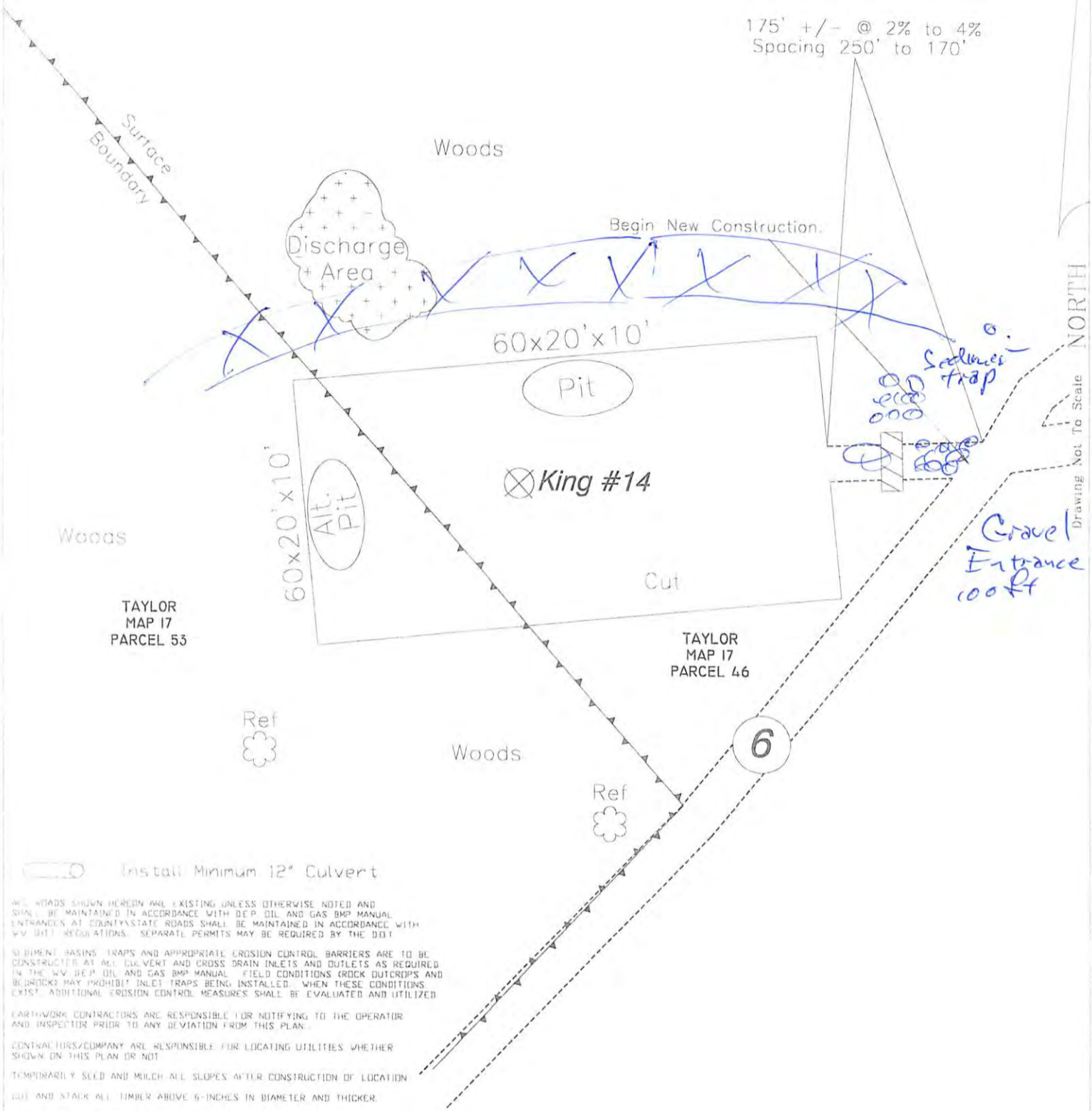
Field Reviewed?  Yes  No

Received  
 JUN 3 2013  
 06/28/2013  
 Office of Oil and Gas  
 WV Dept. of Environmental Protection

# RAVEN RIDGE ENERGY, LLC. KING #14

Form W-9

Page 1 of 1



Install Minimum 12" Culvert

ALL WEIADS SHOWN HEREIN ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEP OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV DOT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE DOT.

SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV DEP OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

PILE AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

<b>HUPP Surveying &amp; Mapping</b> P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 F-MAIL: hupp@frontiernet.net	Drafted BY:	Date Drafted:	Job Number:
	DB	04/09/13	W20122138

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JUN 3 2013

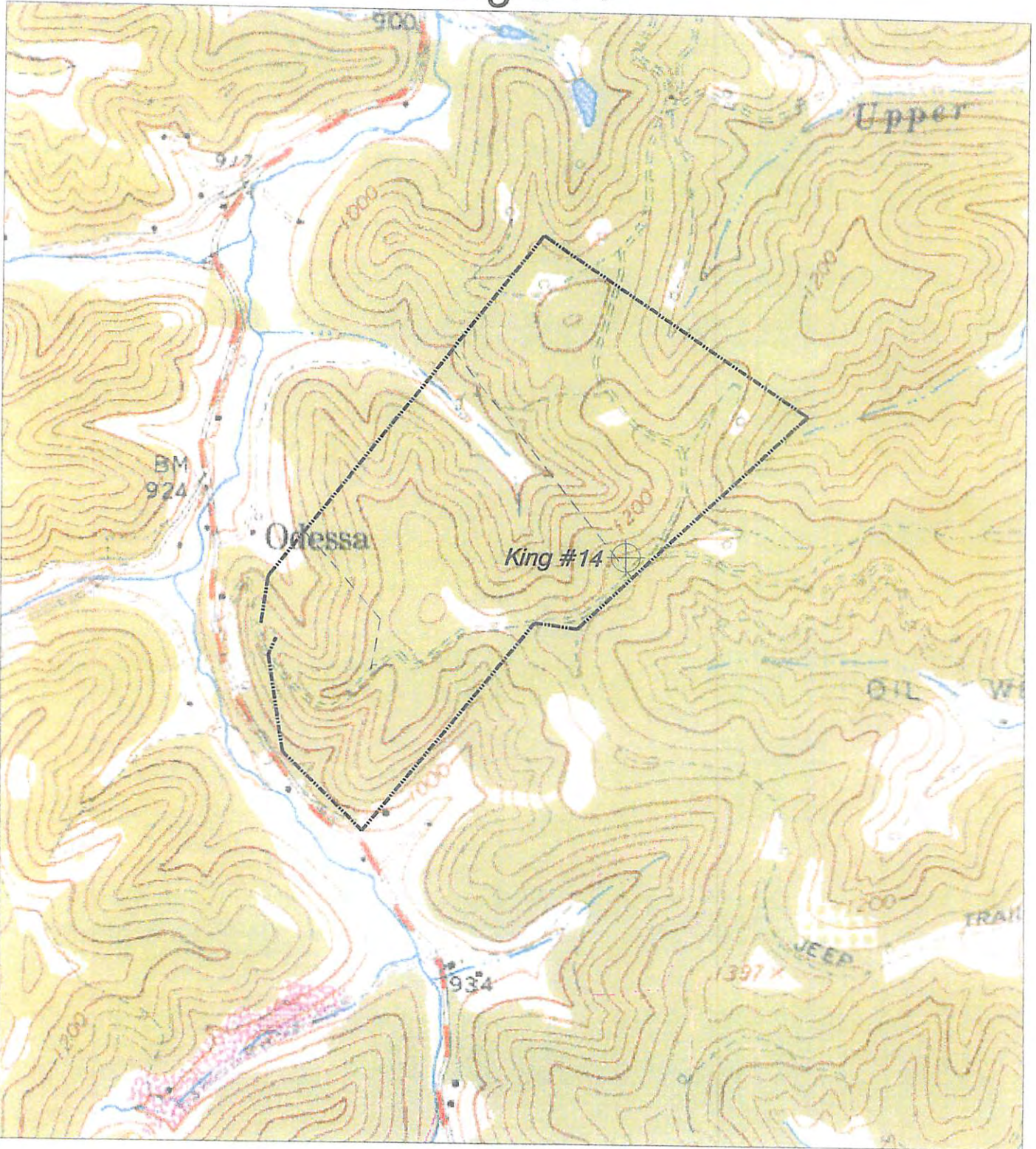
Office of Oil and Gas  
WV Dept. of Environmental Protection

*[Handwritten Signature]*  
5/23/13

06/28/2013

Sediment protection (seed & mulch) in place before rig starts drilling.

# Raven Ridge Energy, LLC. King #14



<p><b>HUPP Surveying &amp; Mapping</b>  P.O. BOX 647 GRANTSVILLE, WV 26147  PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net</p>	<p>1" = 1000'  Elkhurst Quad</p>	<p>Raven Ridge Energy, LLC.  3230 Pennsylvania Ave.  Charleston, WV 25302</p>
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Received

06/28/2013

JUN 3 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

LONG. 81°13'39.3" 5,470' LATITUDE 38°27'30"

# KING #14

**KING #14**  
STATE PLANE  
COORDINATES  
(N) 519701  
(E) 1934804

**KING #14**  
L & L DECIMAL  
38.42702  
81.22758

**KING #14**  
UTM (NAD 83)  
4253231  
480150

**ROGERS**  
60.32 ACRES±  
MAP 13  
PARCEL 108

**TAYLOR**  
26.55 ACRES±  
MAP 17  
PARCEL 47

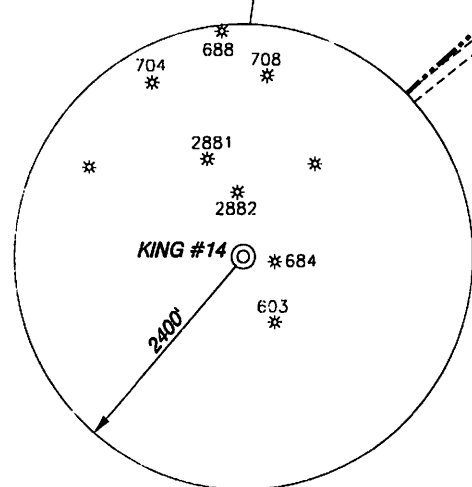
**PIERSON LUMBER CO.**  
105 ACRES±  
MAP 14  
PARCEL 25

**TAYLOR**  
51 ACRES±  
MAP 17  
PARCEL 53

**TAYLOR**  
56 ACRES±  
MAP 17  
PARCEL 46

**ENGELKE, AGENT**  
53 ACRES±  
MAP 17  
PARCEL 54

**MITCHELL**  
22 ACRES±  
MAP 17  
PARCEL 52



**NOTES**

TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.

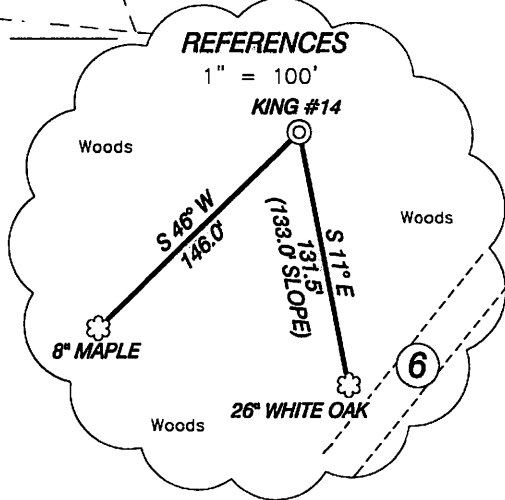
TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 04-03-13.

LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED RECORDED IN DEED BOOK 140 AT PAGE 650 AND INFORMATION PROVIDED BY RAVEN RIDGE ENERGY, LLC.

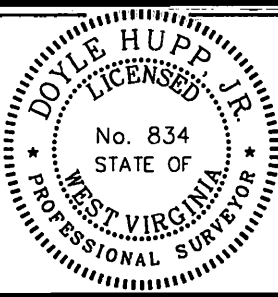
SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF CLAY COUNTY IN DECEMBER, 2012 AND INFORMATION PROVIDED BY RAVEN RIDGE ENERGY, LLC.

WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

TAX MAP 17 PARCELS 46 & 53 ACREAGES SEEM TO BE REVERSED. PROPOSED WELL IS ON THE 56 ACRE± TRACT.



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE APRIL 4, 20 13

OPERATORS WELL NO. KING #14

API WELL NO. 47-015-02890

STATE STATE COUNTY COUNTY PERMIT PERMIT

P.S. 834

*Doyle Hupp, Jr.*

**HUPP Surveying & Mapping**  
P.O. Box 647 Grantsville, WV 26147  
(304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W2138 (BK 63-53)

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 500

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

WELL TYPE : OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION : ELEVATION 1,285' WATERSHED TRIBUTARY OF PORTER CREEK

DISTRICT UNION COUNTY CLAY QUADRANGLE ELKHURST 7.5'

SURFACE OWNER ROBERT TAYLOR ACREAGE 56±

ROYALTY OWNER SANDRA HOBECK, TRUSTEE LEASE ACREAGE 228± **06/28/2013**

PROPOSED WORK : DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BEREA

ESTIMATED DEPTH 3,000'

WELL OPERATOR RAVEN RIDGE ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM

ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302

LONGITUDE 81°12'30" 11,410' LAT. 38°25'37.3"

COUNTY NAME PERMIT

# KING #14

KING #14  
STATE PLANE  
COORDINATES  
(N) 519701  
(E) 1934804

KING #14  
L & L DECIMAL  
38.42702  
81.22758

KING #14  
UTM (NAD 83)  
4253231  
480150

ROGERS  
60.32 ACRES±  
MAP 13  
PARCEL 108

TAYLOR  
26.55 ACRES±  
MAP 17  
PARCEL 47

PIERSON LUMBER CO.  
105 ACRES±  
MAP 14  
PARCEL 25

TAYLOR  
51 ACRES±  
MAP 17  
PARCEL 53

TAYLOR  
56 ACRES±  
MAP 17  
PARCEL 46

ENGELKE, AGENT  
53 ACRES±  
MAP 17  
PARCEL 54

MITCHELL  
22 ACRES±  
MAP 17  
PARCEL 52

MAP 17  
PARCEL 57

### NOTES

1. ALL WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD 83.

2. ALL REFERENCES ARE BASED ON MAGNETIC NORTH 04-03-13.

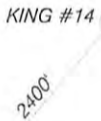
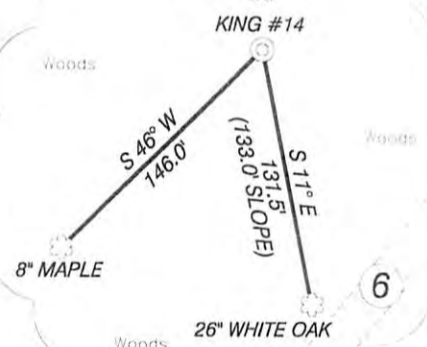
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED RECORDED IN DEED BOOK 140 AT PAGE 650 AND INFORMATION PROVIDED BY RAVEN RIDGE ENERGY, LLC.

4. SURFACE OWNER AND ADDRESS INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF CLAY COUNTY IN DECEMBER, 2012 AND INFORMATION PROVIDED BY RAVEN RIDGE ENERGY, LLC.

5. WELL LAT/LONG ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

6. TAX MAP 17 PARCELS 46 & 53 ACREAGES SEEM TO BE REVERSED. PROPOSED WELL IS ON THE 56 ACRE± TRACT.

### REFERENCES



HUPP Surveying & Mapping  
P.O. Box 647 Grantsville, WV 26147  
1041 334 7533 Email: hupp@frontnet.net

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE APRIL 4, 2013  
OPERATORS WELL NO. KING #14  
API WELL NO. 47-015-02890  
STATE COUNTY OF WV

MINIMUM DEPTH 1/200  
SCALE 1" = 500'  
METHODS USED DGPS (SUBMETER GRADE)FILE NO. W2138 (BK 63-53)

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

LIQUID INJECTION	WASTE DISPOSAL	IF "GAS" PRODUCTION	X STORAGE	DEEP	SHALLOW X
WATERSHED	TRIBUTARY OF PORTER CREEK	COUNTY	CLAY	QUADRANGLE	ELKHURST 2.5'
ACREAGE	56±	LEASE ACREAGE	228±	LEASE NO.	
DRILL METHOD	REDRILL	FRACURE OR STIMULATE	X	PLUG OUT OLD	
PERFORATION NEW FORMATION	PLUG AND ABANDON	CLEAN OUT AND REPLUG	OTHER	TARGET FORMATION	BEREA
ESTIMATED DEPTH	3,000'				

06/28/2013

RAVEN RIDGE ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM  
1236 PENNSYLVANIA AVE CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE CHARLESTON, WV 25302