**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

June 26, 2013

**WELL WORK PERMIT**

**Vertical Well**

This permit, API Well Number: 47-1502889, 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 #13
Farm Name: TAYLOR, ROBERT
**API Well Number: 47-1502889**
**Permit Type: Vertical Well**
Date Issued: 06/26/2013

1502889 CK # 8021
$2600.

WW - 2B
(Rev. 8/10)

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

15 05 334

1) Well Operator: Raven Ridge Energy, LLC

| 494485865 | Clay | Union | Elkhurst 7.5' |
|---|---|---|---|
| Operator ID | County | District | Quadrangle |

2) Operator's Well Number: King #13 3) Elevation: 1,274'

4) Well Type: (a) Oil X or Gas X

(b) If Gas: Production X / Underground Storage _____

Deep _____ / 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'

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

13) **CASING AND TUBING PROGRAM**

5/23/13

| 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 | 1960 | 1960 | CTS |
| Production | 4 1/2" | J55 | 10.5 | 3000' | 3000' | 1000 |
| Tubing | | | | | | |
| Liners | | | | | | |

Packers: Kind: _____
Sizes: _____
Depths Set _____

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

1502889
Check#8021
$ 2600.00

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

1). Date: May 15, 2013
2.) Operator's Well Number King #13
3.) API Well No.: State 47- County 015 Permit -

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

4) Surface Owner(s) to be served: ✓
(a) Name Robert Taylor
Address 1967 Bomont Road
Bomont, WV 25030
(b) Name
Address
(c) Name
Address

6) Inspector Ed Gainer
Address PO Box 821
Spencer, WV 25276
Telephone (304) 389-7582

5) (a) Coal Operator
Name
Address
(b) Coal Owner(s) with Declaration
Name
Address
Name
Address
(c) Coal Lessee with Declaration
Name
Address

**TO THE PERSONS NAMED ABOVE TAKE 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 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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DANIELLE N. BAYS
Cunningham Energy, LLC
3230 Pennsylvania Avenue, Charleston, WV 25302
My Commission Expires February 10, 2015

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

Subscribed and sworn before me this 29th day of May 2013

Danielle N. Bays
Notary Public

My Commission Expires February 10, 2015

Received
JUN 3 2013
Office of Oil and Gas
WV Department of Environmental Protection

**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

1502889

7011 2000 0001 0375 4496

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|---|---|
| Postage | $ |
| Certified Fee | |
| Return Receipt Fee (Endorsement Required) | |
| Restricted Delivery Fee (Endorsement Required) | |
| Total Postage & Fees | $ |

BIG CHIMNEY CONTRACT STATION
Postmark Here
MAY 30 2013
USPS 25302

K-13

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

PS Form 3800, August 2006 See Reverse for Instructions

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

1502889

WW-2A1
(Rev. 1/11)

Operator's Well Number King 13

**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<br>See Attached Agreeement | 1/8 | 51/862 |

**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: Raven Ridge
By: Its: Ryan E.M. Cunningham, Officer

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

1502889

AGREEMENT

This agreement is made and entered into this 16th 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 16th 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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DANIELLE N. BAYS
Cunningham Energy, LLC
3230 Pennsylvania Avenue, Charleston, WV 25302
My Commission Expires February 10, 2015

Notary Public

2/10/2015
My Commission Expires

State of West Virginia
County of Kanawha

The foregoing instrument was acknowledged before me this 16th 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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DANIELLE N. BAYS
Cunningham Energy, LLC
3230 Pennsylvania Avenue, Charleston, WV 25302
My Commission Expires February 10, 2015

Notary Public

2/10/2015
My Commission Expires

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

1502889

WW-2B1
(5-12)

Well No. KING #13

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.

1502889


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


April 11, 2013

RE: Water Samples for King #13

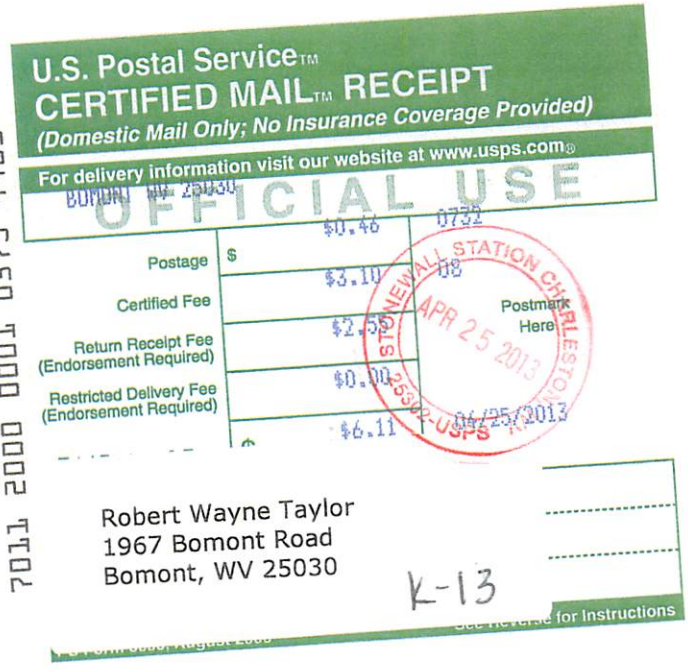
There appears to be one (1) potable water sources within 1,500' of King #13, therefore tests should be offered and samples taken as required.

1. Robert Wayne Taylor
1967 Bomont Rd.
Bomont, WV 25030
Tax Map 17 Parcels 46 & 47

2. Tammy Taylor
569 Shelton Rd.
Bomont WV 25030


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

150 2889



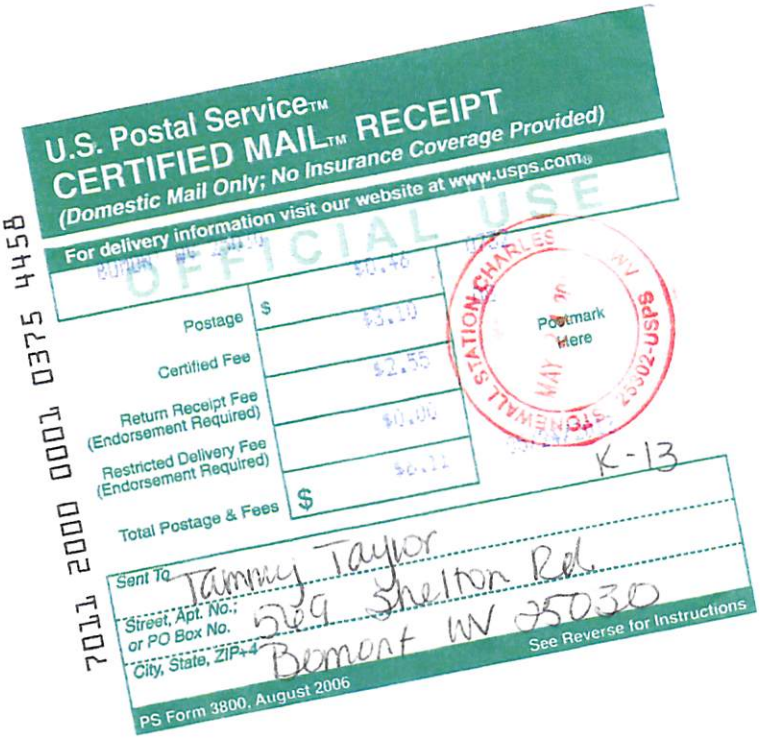

Received

JUN 3 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

1502889

7011 2000 0001 0375 4458



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OFFICIAL USE

| | |
|---|---|
| Postage | $ $0.46 |
| Certified Fee | $3.10 |
| Return Receipt Fee (Endorsement Required) | $2.55 |
| Restricted Delivery Fee (Endorsement Required) | $0.00 |
| Total Postage & Fees | $ $6.11 |

Postmark Here

STONEWALL STATION CHARLES MAY 2 2006 25302-USPS

K-13

Sent To Tammy Taylor
Street, Apt. No.; or PO Box No. 569 Shelton Rd.
City, State, ZIP+4 Bomont WV 25030

See Reverse for Instructions

PS Form 3800, August 2006

Received

JUN 3 2013

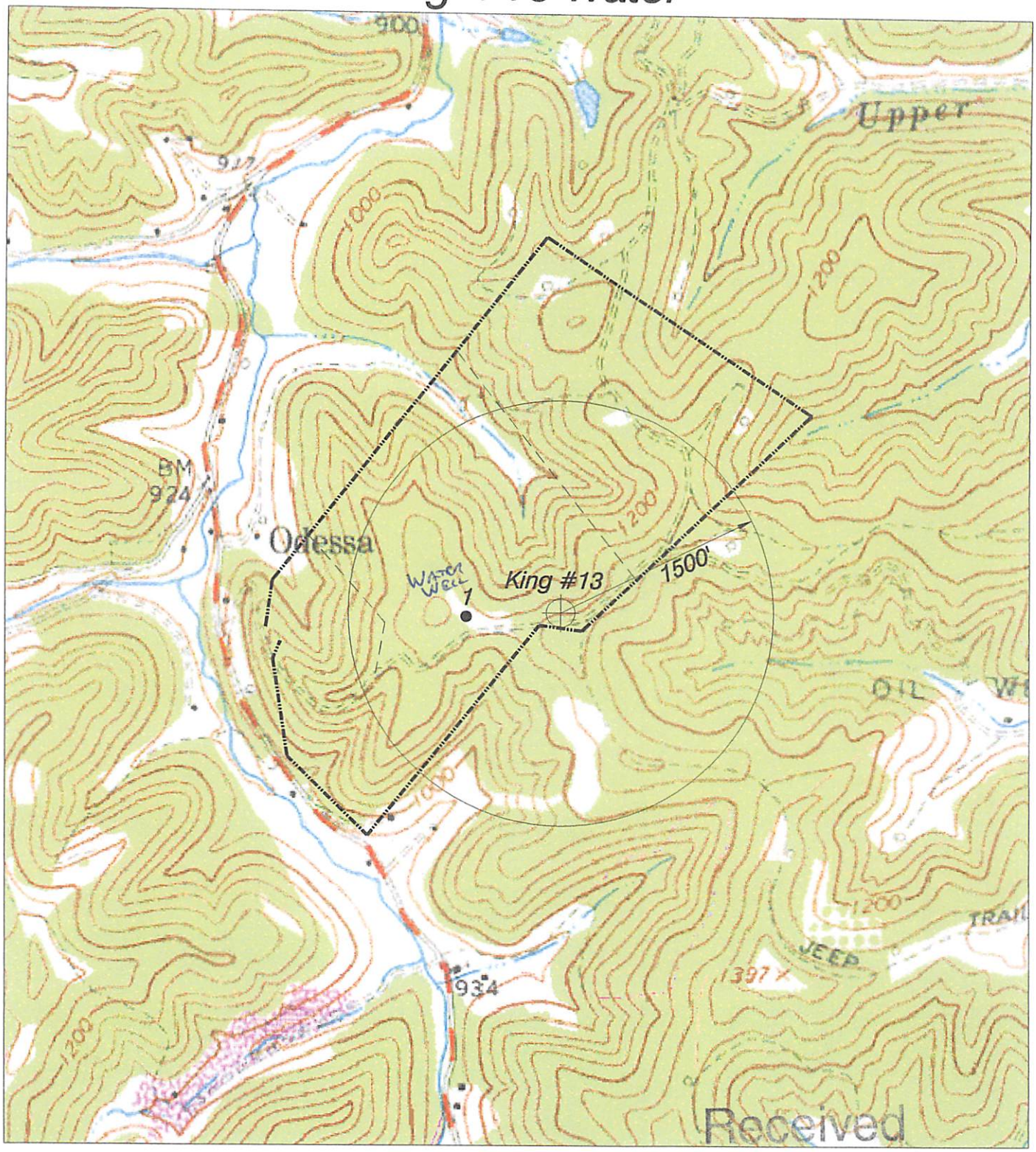
Office of Oil and Gas
WV Dept. of Environmental Protection

1502889

Form W-9

# Raven Ridge Energy, LLC.
# King #13 Water






NORTH

Received
JUN 3 2013
Office of Oil and Gas
WV Department of Environmental Protection

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

1502889

WW-9
(5/13)

Page _____ of _____

API Number 47 - 015 - _____

Operator's Well No. King #13

**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 1,274' 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 Drilling fluids ?

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. _____

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

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 29th day of May, 20 13

Danielle N. Bays Notary Public

My commission expires ~~05/15/2013~~ 2/10/2015 DNB.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DANIELLE N. BAYS
Cunningham Energy, LLC
3230 Pennsylvania Avenue, Charleston, WV 25302
My Commission Expires February 10, 2015

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

1502889

Form WW-9

Legend

Operator's Well No. King #13

Proposed Revegetation Treatment: Acres Disturbed 3.5 1.5± 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

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

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: _____

Title: Inspector Date: 5/23/13

Field Reviewed? (X) Yes ( ) No

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

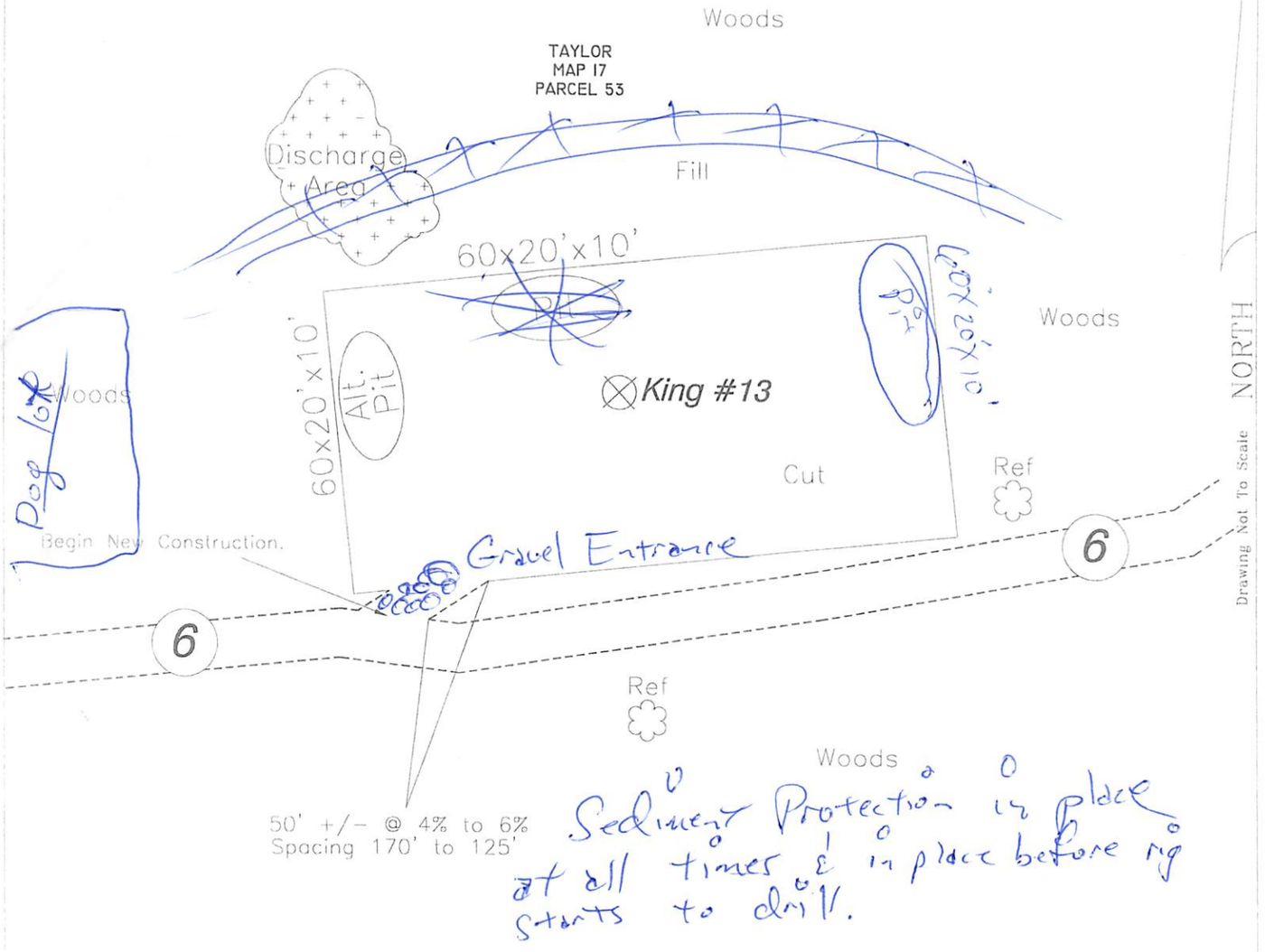
Received
JUN 3 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

1502889

Form W-9

# RAVEN RIDGE ENERGY, LLC.
# KING #13






Sediment Protection in place at all times & in place before rig starts to drill.

Install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH D.E.P. OIL AND GAS BMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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 D.E.P. 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.

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

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

5/23/13

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

| Drafted BY: | Date Drafted: | Job Number: |
|---|---|---|
| DB | 04/10/13 | W20122138 |

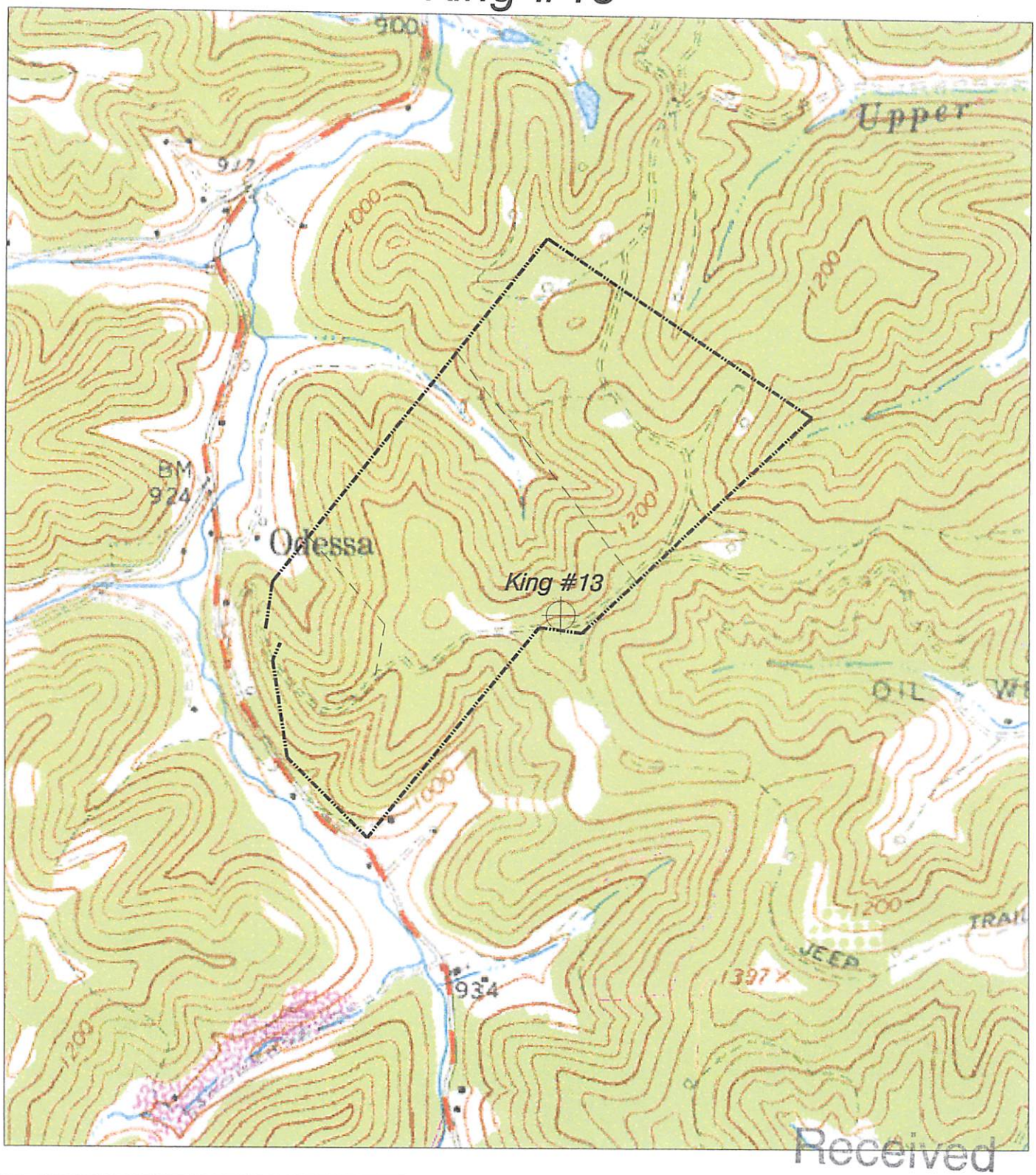
Received
JUN 3 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

1502889

Form W-9

# Raven Ridge Energy, LLC.
# King #13





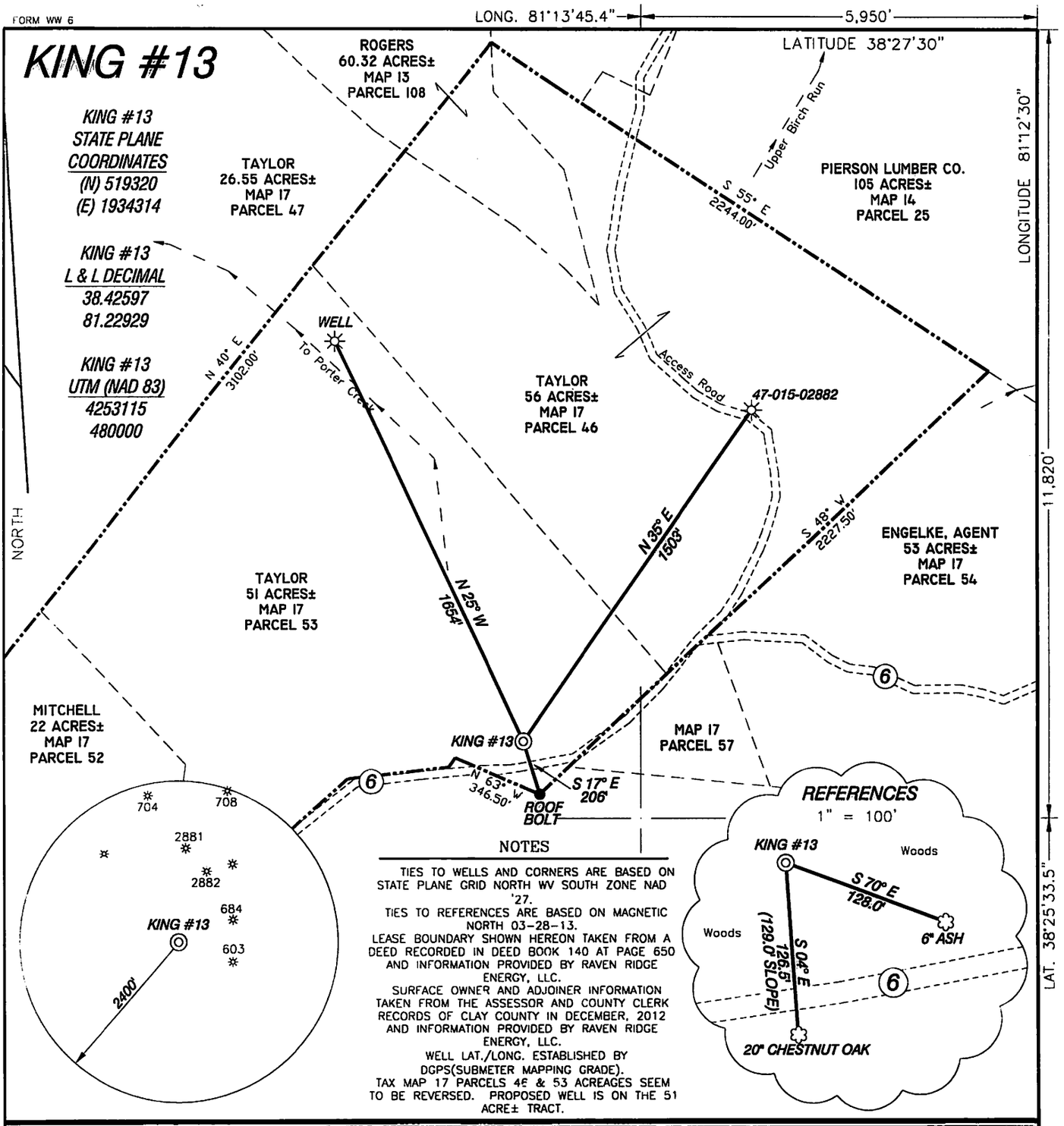

Received
JUN 3 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

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

FORM WW 6




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 03-28-13.
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 45 & 53 ACREAGES SEEM TO BE REVERSED. PROPOSED WELL IS ON THE 51 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.

P.S. 834

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

DOYLE HUPP, JR. LICENSED No. 834 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE APRIL 4, 20 13
OPERATORS WELL NO. KING #13
API WELL NO. 47 - 015 - 02889
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE)
FILE NO. W2138 (BK 63-49)
SCALE 1" = 500'

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

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

LOCATION :
ELEVATION 1,274' WATERSHED TRIBUTARY OF PORTER CREEK
DISTRICT UNION COUNTY CLAY QUADRANGLE ELKHURST 7.5'
SURFACE OWNER ROBERT TAYLOR ACREAGE 51±
ROYALTY OWNER SANDRA HOBECK, TRUSTEE LEASE ACREAGE 228±
PROPOSED WORK : LEASE NO. ___
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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'

COUNTY NAME
PERMIT

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

FORM WW-6

# KING #13

LONG. 81°13'45.4" — 5,950'

LATITUDE 38°27'30"

ROGERS
60.32 ACRES±
MAP 13
PARCEL 108

*KING #13*
*STATE PLANE*
*COORDINATES*
*(N) 519320*
*(E) 1934314*

*KING #13*
*L & L DECIMAL*
*38.42597*
*81.22929*

*KING #13*
*UTM (NAD 83)*
*4253115*
*480000*

TAYLOR
26.55 ACRES±
MAP 17
PARCEL 47

Upper Birch Run

S 55° E
2244.00'

PIERSON LUMBER CO.
105 ACRES±
MAP 14
PARCEL 25

LONGITUDE 81°12'30"

N 40° E
3012.00'

*WELL*

To Porter Creek

Access Road

TAYLOR
56 ACRES±
MAP 17
PARCEL 46

*47-015-02882*

N 35° E
1503'

S 42° W
2227.50'

ENGELKE, AGENT
53 ACRES±
MAP 17
PARCEL 54

11,820'

N 25° W
1654'

TAYLOR
51 ACRES±
MAP 17
PARCEL 53

House

6

MITCHELL
22 ACRES±
MAP 17
PARCEL 52

*KING #13*

MAP 17
PARCEL 57

N 63° W
346.50'

S 17° E
206'

ROOF
BOLT

LAT. 38°25'33.5"

704 708 2881 2882 684 603

*KING #13*

2400'

*REFERENCES*
1" = 100'

*KING #13*

Woods

S 70° E
128.0'

*6" ASH*

Woods

S 04° E
126.5'
(129.0' SLOPE)

6

*20" CHESTNUT OAK*

## 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 03-28-13.
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 51 ACRE± TRACT.

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.

P.S. 834

DOYLE HUPP, JR. LICENSED No. 834 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR


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


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

DATE APRIL 4, 20 13

OPERATORS WELL NO. KING #13

API WELL NO. 47 - 015 - 02889
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W2138 (BK 63-49)

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 X GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION:
ELEVATION 1,274' WATERSHED TRIBUTARY OF PORTER CREEK
DISTRICT UNION COUNTY CLAY QUADRANGLE ELKHURST 7.5'
SURFACE OWNER ROBERT TAYLOR ACREAGE 51±
ROYALTY OWNER SANDRA HOBECK, TRUSTEE LEASE ACREAGE 228±
PROPOSED WORK: LEASE NO. ___
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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

COUNTY PERMIT