



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

November 19, 2014

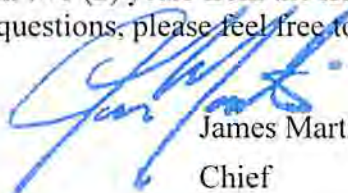
WELL WORK PERMIT
Horizontal Well

This permit, API Well Number: 47-1502904, issued to CUNNINGHAM ENERGY, LLC, 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 18H
Farm Name: TAYLOR, ROBERT
API Well Number: 47-1502904
Permit Type: Horizontal Well
Date Issued: 11/19/2014

15-2904

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. Failure to adhere to the specified permit conditions may result in enforcement action.

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 with 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. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.
9. Be advised that if you drill a horizontal gas well other than a coalbed methane well, which disturbs three acres or more of surface, excluding pipelines, gathering lines and roads, or utilizes more than two hundred ten thousand gallons of water in any thirty day period it would require a permit/bond under Chapter 22-6A.

11/21/2014

4701502904H CK# 9089
\$650⁰⁰

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

1) Well Operator: CUNNINGHAM ENERGY, LLC 15 5 334

Operator ID: 494508594	County: CLAY	District: UNION	Quadrangle: ELKHURST 7.5'
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2) Operator's Well Number: KING 18H 3) Elevation: 1,291'

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

5) Proposed Target Formation(s): BIG INJUN Proposed Target Depth: 2,150'

6) Proposed Total Depth: 5,200' TMD Feet Formation at Proposed Total Depth: BIG INJUN

7) Approximate fresh water strata depths: 200'

8) Approximate salt water depths: 1475' - 1525'

9) Approximate coal seam depths: NO COAL LISTED ON TITLE

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

11) Does land contain coal seams tributary to active mine? NONE

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
DRILL AND STIMULATE A NEW SHALLOW HORIZONTAL WELL. WE PLAN TO RUN THE PACKER PLUS SYSTEM HOWEVER IF THE LATERAL DOES NOT ALLOW THIS WE WILL RUN CEMENT TO SURFACE USING THE WEATHERFORD WET SHOE SYSTEM AND PERFORATE.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	13"	LS	43.6 LBS	30	30	CTS
Fresh Water	9 5/8"	LS	26 LBS	400'	400'	CTS
Coal						
Intermediate	7"	J-55	20 LBS	1900'	1900'	CTS
Production	4 1/2"	N-80	11.6 LBS	5140'	5140'	PACKERS PLUS/CTS
Tubing						
Liners						

Packers: Kind: _____ Sizes: _____ Depths Set _____

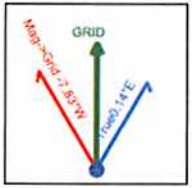
OCT 30 2014

Office of Oil and Gas

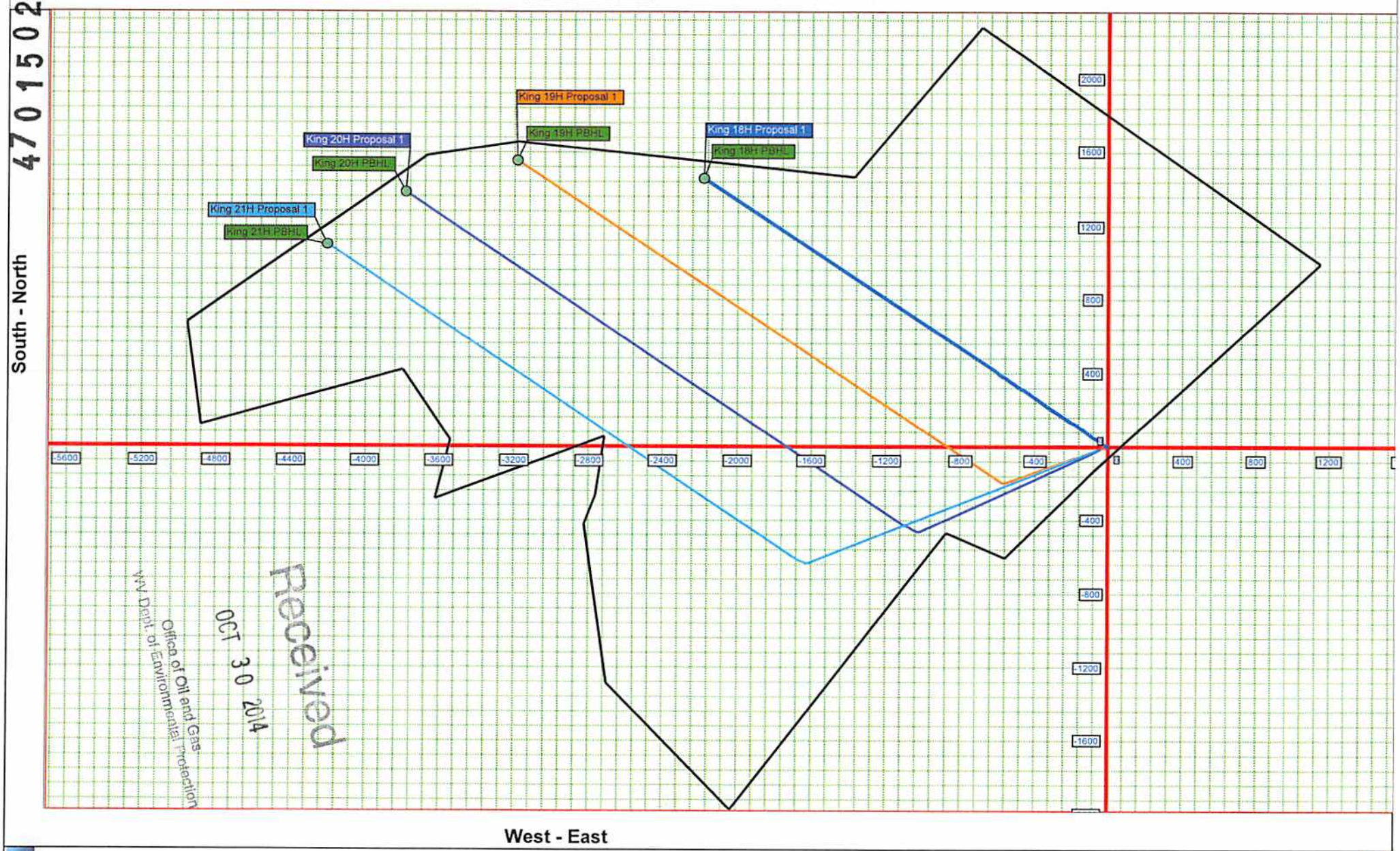
11/21/2014



Job Number: King PAD
 Company: Cunningham Energy
 Lease/Well: King PAD
 Location: Southern Zone
 Rig Name:
 State/County: West Virginia/ Clay
 Country: USA
 API Number:



Elevation (To MSL): 1291.00 ft
 RKB: 9.00 ft
 Projection System: US State Plane 1927 (Exact solution)
 Projection Group: West Virginia South 4702
 Projection Datum: CLARKE 1866
 Magnetic Declination: -7.97
 Grid Convergence: -0.14041 W
 Date: Thursday, October 09, 2014



Received
 OCT 30 2014
 WV Dept. of Environmental Protection
 Office of Oil and Gas

West - East

4701502904H

WW-2A
(Rev. 6-07)

1.) Date: JUNE 19, 2014
2.) Operator's Well Number KING 18H
State 47- County 15 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**

4) Surface Owner(s) to be served:
(a) Name ROBERT TAYLOR
Address 1987 BOMONT ROAD
BOMONT, WV 25030
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector ED GAINER
Address P.O. BOX 821
SPENCER, WV 25276
Telephone 304-389-7582

5) (a) Coal Operator
Name NONE
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

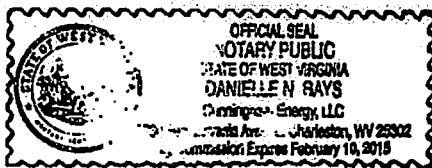
OR
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) application, a location plat, and accompanying documents pages 1 through _____ on the above named parties by:

- Personal Service (Affidavit attached)
- 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 CUNNINGHAM ENERGY, LLC
By: RYAN E.M. CUNNINGHAM
Its: PRESIDENT
Address 3230 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302
Telephone 304-344-9291

Subscribed and sworn before me this 3rd day of JUNE 2014

Received

My Commission Expires FEBRUARY 10, 2015 Notary Public

NOV 3 2014

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 required 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

11/21/2014

4701502904 H

7012 3460 0002 4924 4459

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Total Postage & Fees	\$ 7.40

Postmark
 here
 OCT 29 2014

18-11

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

PS Form 3800, August 2006 See Reverse for Instructions

Received

OCT 30 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

11/21/2014

**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
CUNNINGHAM ENERGY, LLC	CUNNINGHAM ENERGY, LLC	1/8	210/58

**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:

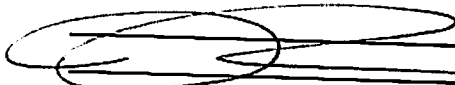
- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

Received

OCT 30 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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: _____

4701502904H

WW-2B1
(5-12)

Well No. KING 18H

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 contractor chosen to collect sample.

Certified Laboratory Name STURM ENVIRONMENTAL
Sampling Contractor HUPP SURVEYING

Well Operator CUNNINGHAM 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

OCT 30 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

11/21/2014

HUPP Surveying & Mapping 47 0 15 0 2 9 0 4 H

P.O. BOX 647

GRANTSVILLE, WV 26147

(304) 354-7035 hupp@frontiernet.net FAX: (304) 354-6548

June 2, 2014

RE: Water Samples for King 18H

There appears to be one (1) potable water sources within 1,500' of King 18H, 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

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OCT 30 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

11/21/2014

4701502904 H

7012 3460 0002 4924 2639

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Postage	\$.49
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.49



18-H

Sent To **Robert Taylor**
 Street, Apt. or PO Box # **1967 Bomont Road**
 City, State, ZIP+4® **Bomont, WV 25030**

PS Form 38

Received

OCT 30 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

11/21/2014

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CUNNINGHAM ENERGY, LLC OP Code 494508594

Watershed (HUC 10) TRIBUTARY OF WADE FORK Quadrangle ELKHURST 7.5'

Elevation 1,291' 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: DRILL CUTTINGS, FLUIDS FROM DRILING AND FRACTURING

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 30 MIL.

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0392210 - IF NEEDED
- 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 STABILIZER

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LEAVE IN PIT/HAUL IF NEEDED

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

-Landfill or offsite name/permit number? CITY OF CHARLESTON LANDFILL

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 PRESIDENT

NOV 3 2014

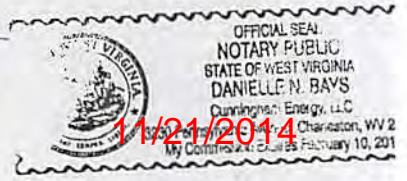
Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 31st day of JUNE October, 20 14

Danielle N. Bays

Notary Public

My commission expires 02/10/2015



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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

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Company Official Signature _____
Company Official (Typed Name) RYAN E. M. CUNNINGHAM
Company Official Title PRESIDENT

Received

OCT 30 2014

Subscribed and sworn before me this _____ day of JUNE, 20 14

Office of Oil and Gas
WV Dept. of Environmental Protection

Notary Public

My commission expires 02/10/2015

11/21/2014

Operator's Well No. KING 18H

Proposed Revegetation Treatment: Acres Disturbed 2.75 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:

Sediment control in place at all times

Title: Inspector

Date: 10/29/14

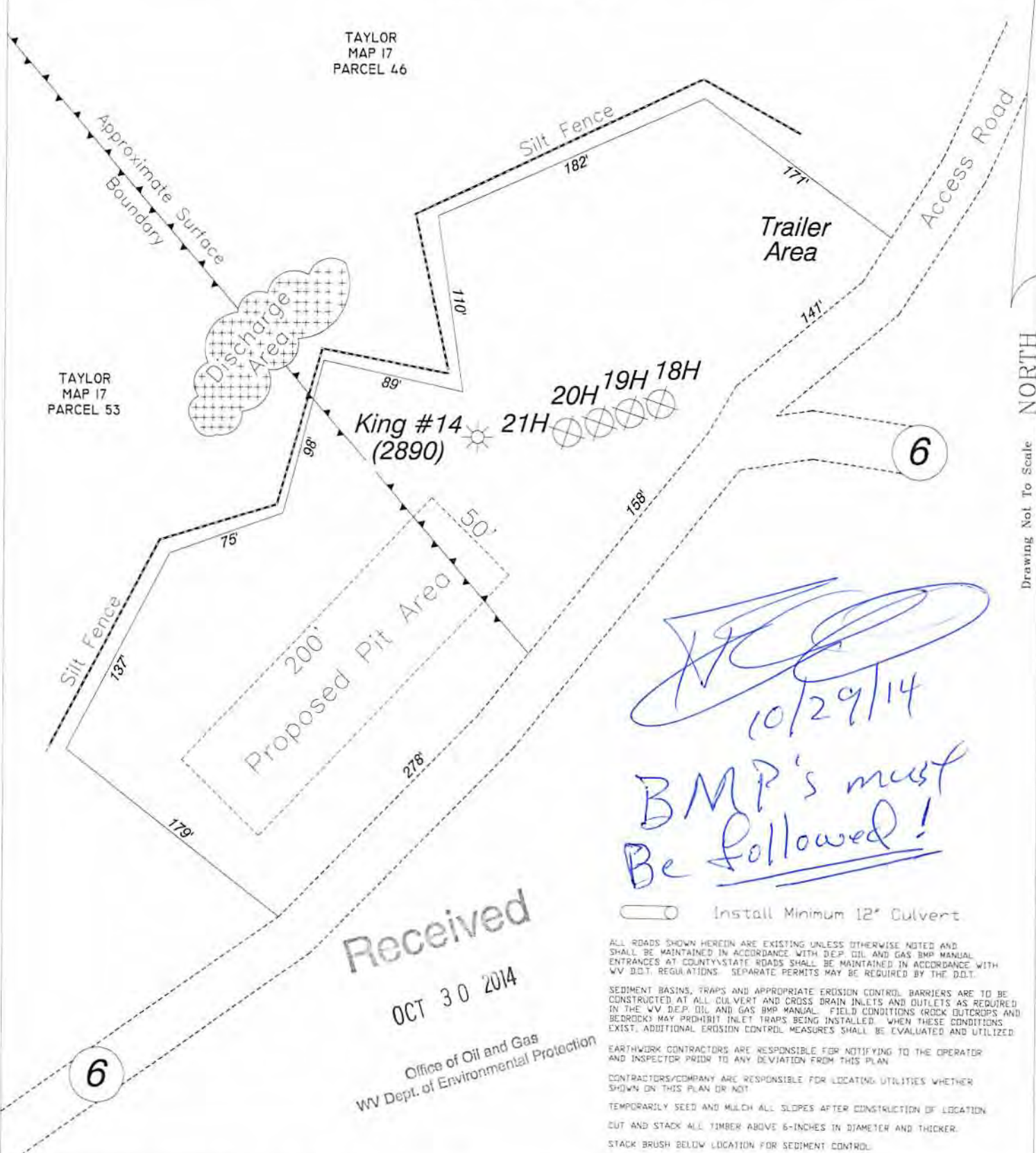
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Field Reviewed? Yes No

OCT 30 2014

TAYLOR
MAP 17
PARCEL 46

TAYLOR
MAP 17
PARCEL 53



[Handwritten Signature]
10/29/14
**BMP's must
Be followed!**

Install Minimum 12" Culvert.

ALL ROADS 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 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 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.

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

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

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OCT 30 2014
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: nupp@frontiernet.net

Drafted BY:

Date Drafted:

Job Number:

DB

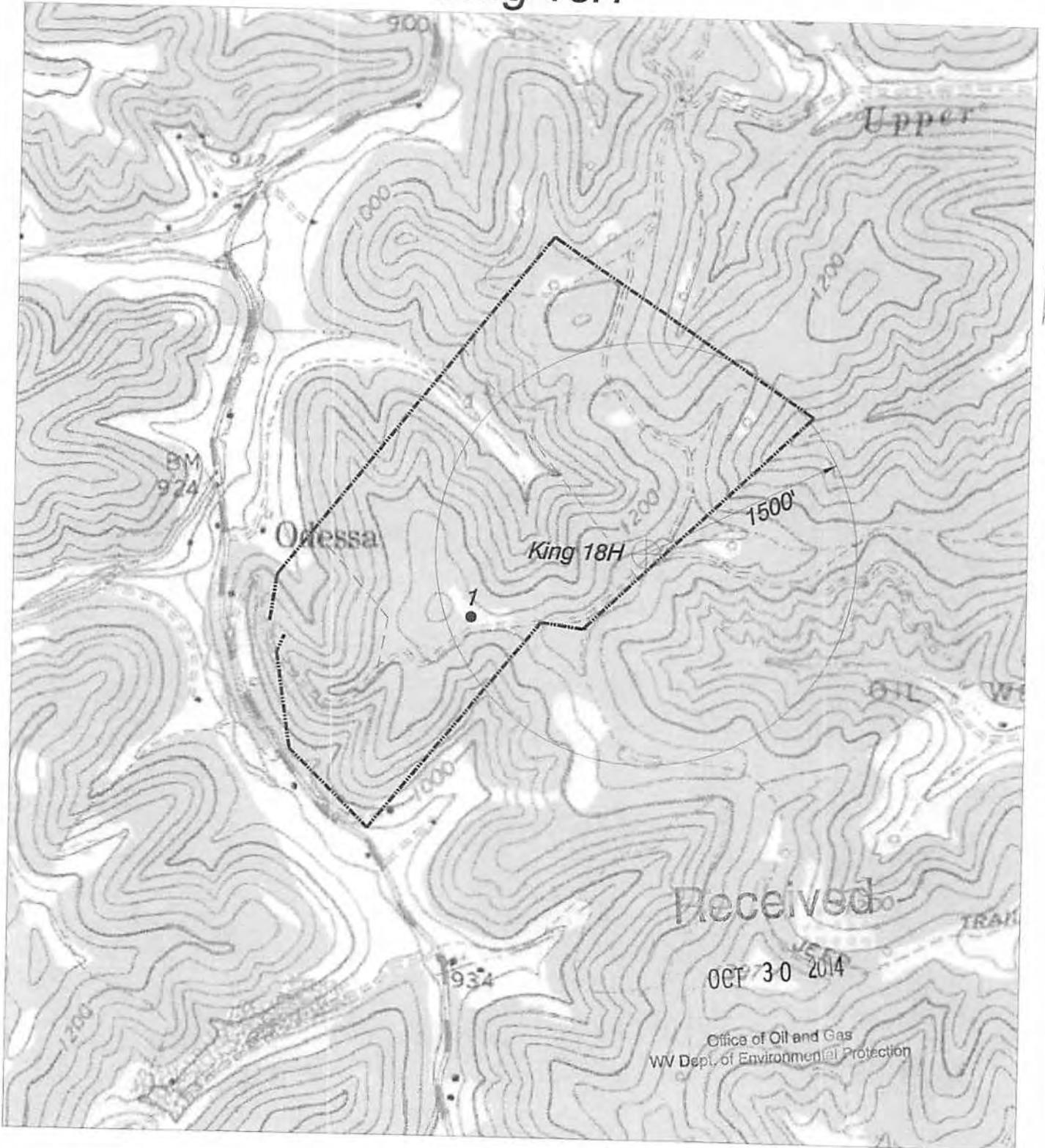
10/27/14

W70127138

11/21/2014

Drawing Not To Scale NORTH

Cunningham Energy, LLC. King 18H



NORTH

HUPP Surveying & Mapping

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

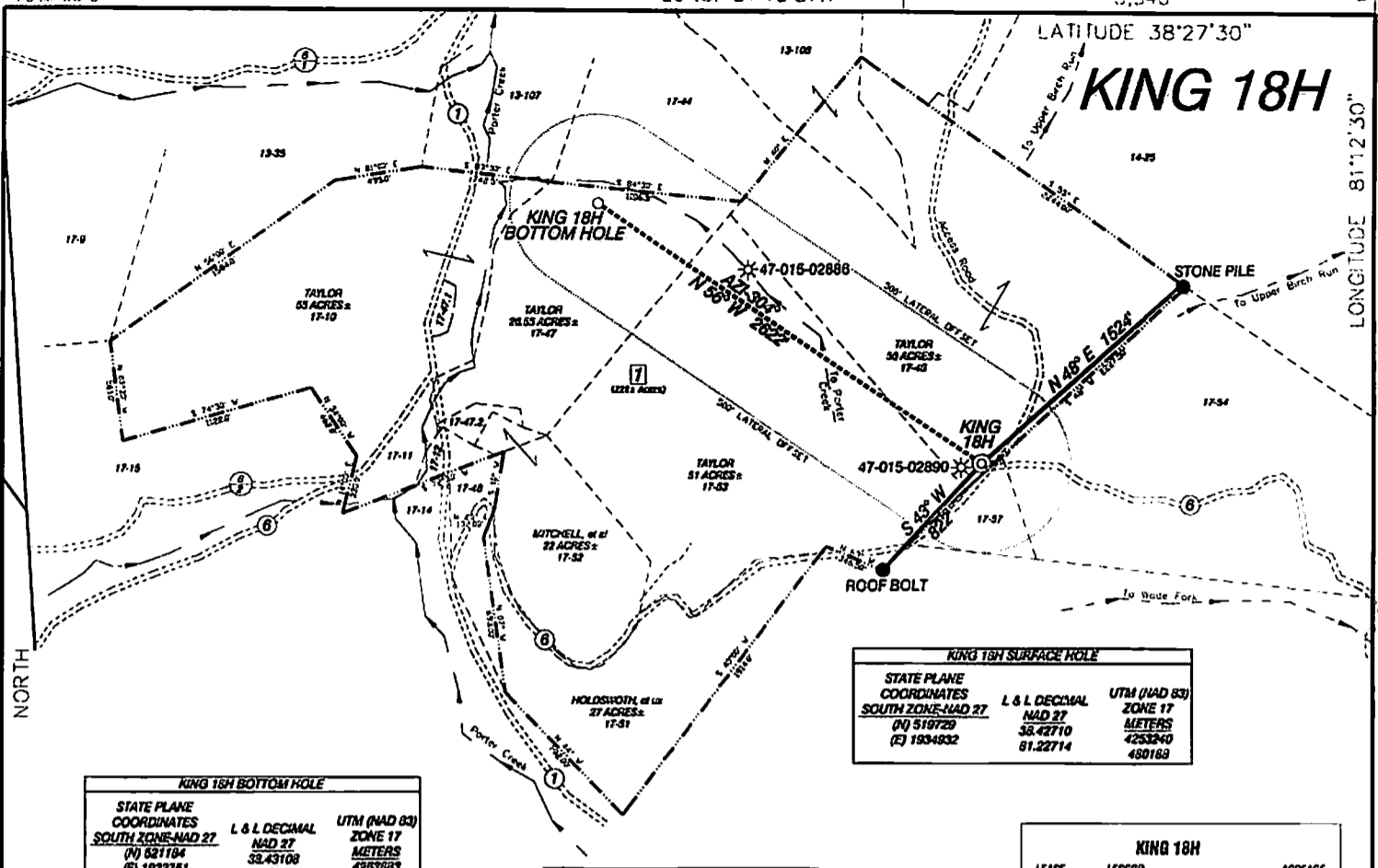
1" = 1000'
Elkhurst Quad

Cunningham Energy, LLC.
3230 Pennsylvania Ave.
Charleston, WV 25302

11/21/2014

KING 18H

LONGITUDE 81°12'30"



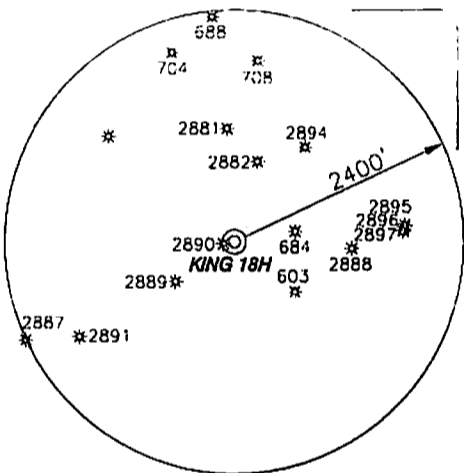
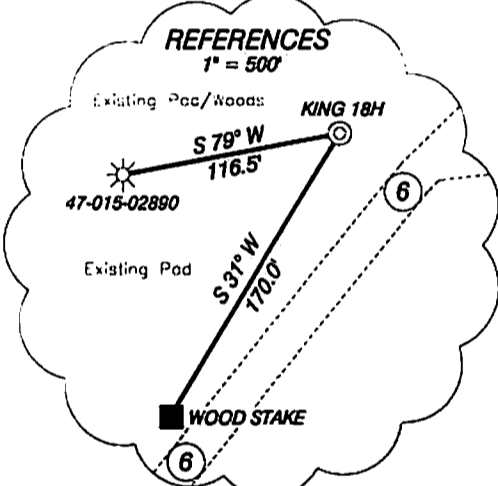
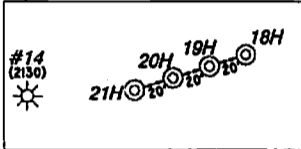
KING 18H BOTTOM HOLE		
STATE PLANE COORDINATES SOUTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 621184	38.43108	483883
(E) 1932751	81.23478	479524

KING 18H SURFACE HOLE		
STATE PLANE COORDINATES SOUTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 518729	38.42710	425240
(E) 1934932	81.22714	480183

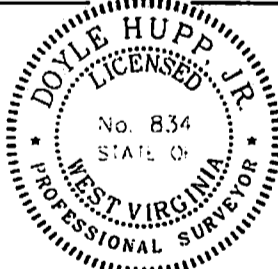
KING 18H		
LEASE	LESSOR	ACREAGE
1	CUNNINGHAM ENERGY, LLC.	228±

LINE LEGEND	
LEASE BOUNDARY	---
SURFACE BOUNDARY	---
CREEK/STREAM	~ ~ ~
ROADS	==
WELLS	⊙
500' BUFFER ZONE

- NOTES ON SURVEY**
- NO DWELLINGS WITHIN 625' WERE FOUND.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
 - TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
 - WELL LAT./LONG. ESTABLISHED BY SG-GPS(OPUS).
 - SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF CLAY COUNTY IN JANUARY, 2014 AND INFORMATION PROVIDED BY CUNNINGHAM ENERGY, LLC.
 - WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP.



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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 2, 2014
 OPERATORS WELL NO. KING 18H
 API WELL NO. 47-015-02904H
 STATE COUNTY PERMIT

P.S. 834
 HUPP Surveying & Mapping
 P.O. Box 647 Grantsville, WV 26147
 (304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W2138 (BK71-1)
 PROVEN SOURCE OF ELEVATION SG-GPS (OPUS) SCALE 1" = 1000'

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 1291' WATERSHED TRIBUTARY OF PORTER CREEK
 DISTRICT UNION COUNTY CLAY QUADRANGLE ELKHURST 7.5'

SURFACE OWNER ROBERT TAYLOR ACREAGE 51±
 ROYALTY OWNER CUNNINGHAM ENERGY, LLC. LEASE ACREAGE 228± **11/21/2014**

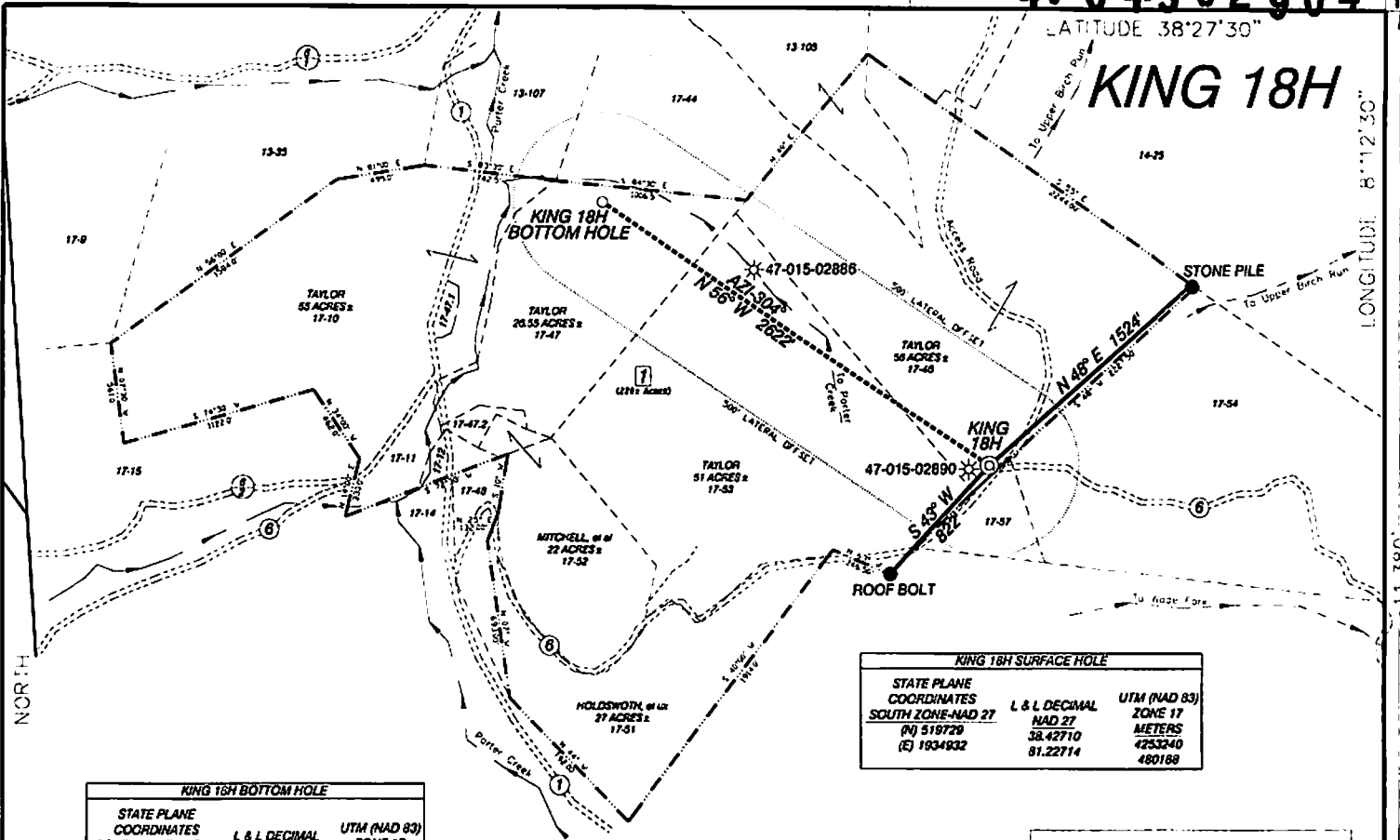
PROPOSED WORK : LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BIG INJUN
 ESTIMATED DEPTH TVD- 2,150' MD-5,200'

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

COUNTY NAME PERMIT

KING 18H



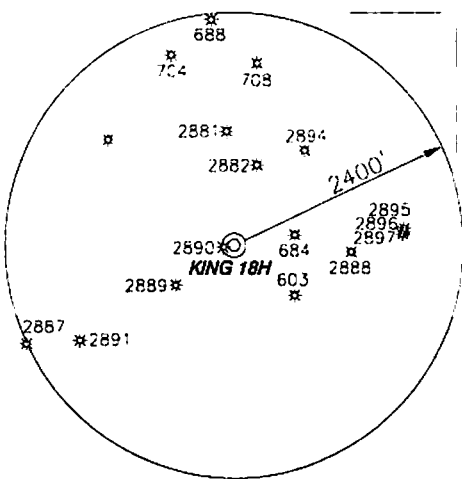
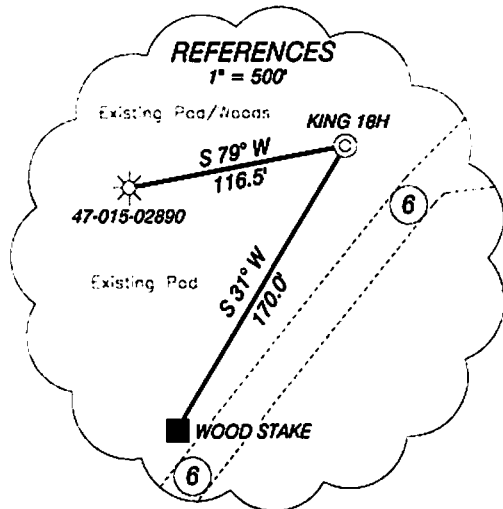
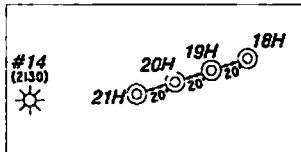
KING 18H BOTTOM HOLE		
STATE PLANE COORDINATES SOUTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 521184	38.43108	4753683
(E) 1832751	81.23476	478524

KING 18H SURFACE HOLE		
STATE PLANE COORDINATES SOUTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 518728	38.42710	4753240
(E) 1834932	81.22714	480188

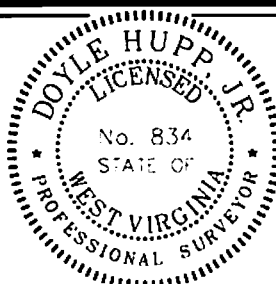
KING 18H		
LEASE	LESSOR	ACREAGE
1	CUNNINGHAM ENERGY, LLC.	228±

LINE LEGEND	
LEASE BOUNDARY	---
SURFACE BOUNDARY	---
CREEK/STREAM	~ ~ ~
ROADS	==
PROPOSED LATERAL	-----
500' LATERAL OFFSET	-----

- NOTES ON SURVEY**
- NO DWELLINGS WITHIN 625' WERE FOUND.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 2, 2014
 OPERATORS WELL NO KING 18H
 API NO. _____
 WELL NO. 47-015-02904H
 STATE WV COUNTY CLAY PERMIT 02904H

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W2138 (BK71-1)
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 ROYALTY OWNER CUNNINGHAM ENERGY, LLC. LEASE ACREAGE 228± **11/21/2014**

PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPERFORATE OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BIG SAND
 ESTIMATED DEPTH 1000-2100' MD 5,200'

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

COUNTY NAME
 DISTRICT



September 26, 2014

Re: King 18H, 19H, 20H, 21H
 Original Lessor(s): King
 156 Acres, more or less
 Union District, Clay County, West Virginia

Statement on Road Searches in Clay County, WV

The writer has researched the records of the Office of the Clay County Clerk in reference to the following curative requirement:

According to John McHugh, Right of Way attorney for the West Virginia Department of Transportation, numerous Clay county roads were accepted into the state road system in 1931, pursuant to W. Va. Code § 17-2A-8, and were included in the 1933 "Scrolls of the State Road Commission of West Virginia." This is a list of all of the roads that transferred from county to state control.

Whatever interest Clay County had in a particular county road in 1931 was the same interest that the State acquired at that time- no more or no less. Many county roads were acquired by prescriptive easement and consist of a right-of-way only over the surface. However, some were acquired by deed in fee simple. Therefore, because the state road commission acquired whatever interest the county had, to determine if the state of West Virginia owns the minerals under a particular road in fee simple or merely has an easement, it will depend upon the particular circumstance of acquisition.

According to John McHugh, Right of Way attorney for the West Virginia Department of Transportation, absent evidence of acquisition that a particular roadway was acquired in fee simple, the road is presumed to be an easement, and therefore will not require the state of West Virginia to sign an Oil and Gas lease.

A search was conducted for the property covered by the above listed Title Opinion, and no record of acquisition has been found in the Clay County records covering any roads that may cross or border the property.

Because no fee simple deeds have been found in the Office of the Clay County Clerk covering any roads that may cross or border the property covered by the above listed Title Opinion, it is the writer's understanding from all known evidence that any road that may cross or border the property is an easement only, and will not require an oil and gas lease from the state of West Virginia.

Thank you for your time and attention,

Sincerely,

Ryan E. M. Cunningham
 President
 Cunningham Energy, LLC

Received

OCT 30 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

11/21/2014

Hankins, Melanie S

From: Hankins, Melanie S
Sent: Friday, October 31, 2014 11:05 AM
To: 'Danielle Boggs'
Subject: Permit Applications for King 18H, 19H, 20H, 21H (APIs 1502904-07)

Ms. Bays,

I received the Permit Applications for King 18H, 19H, 20H, 21H (APIs 1502904-07) yesterday. The only problem I see on initial review is that the WW-9 forms aren't notarized. Can you get these notarized and send me a copy?

Thanks,

Melanie S. Hankins

Environmental Technician
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 1649
(304) 926-0452 fax
Melanie.S.Hankins@wv.gov

PLEASE INCLUDE THE INFORMATION IN THE SUBJECT LINE OF THIS EMAIL FOR ALL CORRESPONDENCE CONCERNING THIS PERMIT APPLICATION WHETHER IT BE BY EMAIL OR MAIL. THE ITEMS REQUESTED IN THIS EMAIL WILL NEED TO BE RECEIVED BY THE OFFICE OF OIL AND GAS WITHIN 20 DAYS TO AVOID THE PERMIT APPLICATION BEING RETURNED. IF YOU WISH TO RESUBMIT AN APPLICATION THAT HAS BEEN RETURNED, THE OPERATOR IS REQUIRED TO COMPLETE AND SUBMIT NEW FORMS, MYLAR PLAT AND ASSOCIATED FEES.

