



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

## PERMIT MODIFICATION APPROVAL

March 03, 2016

CUNNINGHAM ENERGY, LLC  
3230 PENNSYLVANIA AVENUE  
CHARLESTO, WA 25302

Re: Permit Modification Approval for API Number 1502906, Well #: KING 20H

### ADDITIONAL ADDITIVES TO BE USED IN DRILLING

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Gene Smith" with a flourish.

Gene Smith  
Assistant Chief of Permitting  
Office of Oil and Gas

Promoting a healthy environment.

03/04/2016

WW-9  
(2/15)

API Number 47 - 15 - 02906  
Operator's Well No. KING 20H

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'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: DRILL CUTTINGS, FLUIDS FROM DRILLING AND FRACTURING

Will a synthetic liner be used in the pit? Yes  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? If so, describe: NO

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. AIR, FRESHWATER, DRILLING MUD (INTERMEDIATE)

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? SOAP; KCL; CLAY STABILIZER; EVAP SALT; XCIDE-102; MIL-STARCH; XANPLEX D;

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

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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.

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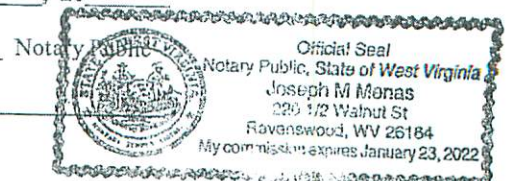
Company Official Signature \_\_\_\_\_

Company Official (Typed Name) RYAN E. M. CUNNINGHAM

Company Official Title PRESIDENT

Subscribed and sworn before me this 25<sup>th</sup> day of FEBRUARY, 20 16

My commission expires January 23, 2022



03/04/2016

WW-9  
Part II

API Number 47-15-02906  
Operator's Well No. King 20H

ADDITIONAL ADDITIVES TO BE USED IN DRILLING MEDIUM:

CAUSTIC SODA  
MIL-PAC R  
SODA ASH LIGHT  
SODIUM CHLORIDE

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SIR\_FWAGFURDLEN\_NBY  
NIPMGRU/HR/100  
SPPF\_NHGR

EVER RIDGES  
Detail Bill Receipt by Material

Page: 1  
Date: 02/25/2016  
Time: 16:50:29

Sales Organization 1030 BH (E)Final Cpr  
Division 20 Power Highest INTRG  
Wdl 61848176 KING 201

Customer	Customer Name	Material	Material Description	Delivery	Item	Ship Date	Quantity	Unit Price	Extended Price	Plant	Invoice No	Invoice date
		1000446	Drill Fluid For Service Packer	00000		00/00/0000	0.000	0.00	0.00	1679		00/00/0000
			Subtotal for Material 1000446				0.000		0.00			
		1005736	Wdr Drilling Fluids Engineer	00000		00/00/0000	0.000	650.00	0.00	1679		00/00/0000
			Subtotal for Material 1005736				0.000	350.00	0.00	1679		00/00/0000
									0.00			
		1021296	Shale Control Equipment Service Packer	00000		00/00/0000	0.000	0.00	0.00	1753		00/00/0000
			Subtotal for Material 1021296				0.000		0.00			
		1024236	Liquid material processing equip use psi	00000		00/00/0000	0.000	0.00	0.00	1763		00/00/0000
			Subtotal for Material 1024236				0.000		0.00			
			Subtotal for Customer				0.000		0.00			
4020090	CLINING FM ENERGY LLC											
		1000671	BITES	812014364	000130	02/24/2016	14.000	12.50	175.00	1679		00/00/0000
				812014501	000120	02/24/2016	10.000	12.50	125.00	1679		00/00/0000
				812014527	000029	02/24/2016	10.000	12.50	125.00	1679		00/00/0000
			Subtotal for Material 1000671				34.000		425.00			
		1000672	SHOCK WASTING	812014364	000150	02/24/2016	14.000	12.00	168.00	1679		00/00/0000
				812014504	000140	02/24/2016	10.000	12.00	120.00	1679		00/00/0000
				812014527	000030	02/24/2016	10.000	12.00	120.00	1679		00/00/0000
			Subtotal for Material 1000672				34.000		408.00			
		1000684	FLUIDS FREIGHT CHARGE	812014364	000150	02/24/2016	7.000	130.00	910.00	1679		00/00/0000
				812014504	000140	02/24/2016	7.000	130.00	910.00	1679		00/00/0000
				812014527	000140	02/24/2016	7.000	130.00	910.00	1679		00/00/0000
			Subtotal for Material 1000684				21.000		2,730.00			
		1007029	MIL-G78 S, SCLR BKG	812014384	000000	02/24/2016	50.000	25.00	1,250.00	1679		00/00/0000
			Subtotal for Material 1007029				50.000		1,250.00			
		1019715	PP25-12-01 150 HEL TANK 10"diax26'	812006460	000020	02/22/2016	1.000	96.26	96.26	1763		00/00/0000
			Subtotal for Material 1019715				1.000		96.26			
		10197216	(PESH-35) SCREEN BLK	812006250	000070	02/22/2016	1.000	0.00	0.00	1763		00/00/0000
			Subtotal for Material 10197216				1.000		0.00			
		10199590	SCRM, CERMIK 500, R4P, APF 140, G2	812014485	000010	02/24/2016	8.000	330.53	2,644.24	1763		00/00/0000
			Subtotal for Material 10199590				8.000		2,644.24			
		1021304	SCFA ASH LEMIC, 50 LB, PPG	812014384	000010	02/24/2016	30.000	13.22	396.60	1679		00/00/0000

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2112 UNFORWARDED.124  
 407662/481/100  
 SWRI REPORT

SEWER LINES  
 Detail Well Receipt by Material

Page: 2  
 Date: 02/25/2016  
 Time: 16:50:29

Shires Organization 1030 B1 Calfield Ctr  
 Division 20 Baker Hughes INDR  
 Well 6286175 KING 23H

Customer	Customer Name	Material	Material Description	Delivery Item	Ship Date	Quantity	Unit Price	Extended Price	Plant	Invent No	Location	date
		Subtotal for Material 10242624				20.000		396.60				
		10242626	22FENEG106) STW, 3/4" S 3/8" R BAR	812006450	00099 02/22/2016	1.000	0.00	0.00	1763			02/00/0000
				812006450	00099 02/22/2016	1.000	0.00	0.00	1763			02/00/0000
		Subtotal for Material 10242628				2.000		0.00				
		10242627	22FENEG106) TRNK, CRN TOP, 150-150 HEL	812006450	00000 02/22/2016	1.000	0.00	0.00	1763			02/00/0000
		Subtotal for Material 10242627				1.000		0.00				
		10242628	22FENEG106) TRNK, SR 150 HEL WITH MOTOR	812006450	00000 02/22/2016	1.000	0.00	0.00	1762			02/00/0000
		Subtotal for Material 10242628				1.000		0.00				
		10282024	62525-11-60) DE RLC-SH HIGH G DREG	812006450	00000 02/22/2016	1.000	0.00	0.00	1763			02/00/0000
				812006450	00000 02/22/2016	1.000	0.00	0.00	1763			02/00/0000
		Subtotal for Material 10282024				2.000		0.00				
		10291655	MIL-FER 410, 3000 LB BULK BFG	812014384	00000 02/24/2016	3.000	459.25	1,378.05	1679			02/00/0000
				812014384	00000 02/24/2016	16.000	459.25	4,583.50	1679			02/00/0000
		Subtotal for Material 10291655				19.000		5,961.55				
		10437305	EXPANDED SPCL, 3000 LB BFG	812014384	00000 02/24/2016	10.000	411.69	4,116.90	1679			02/00/0000
		Subtotal for Material 10437305				10.000		4,116.90				
		N0020025P	WIN-FLEX D 25 LB BFG	812014384	00000 02/24/2016	40.000	142.60	5,707.20	1679			02/00/0000
		Subtotal for Material N0020025P				40.000		5,707.20				
		N0076605P	MIL-FER 410, 50 LB BFG	812014384	00000 02/24/2016	36.000	141.65	5,114.60	1679			02/00/0000
		Subtotal for Material N0076605P				36.000		5,114.60				
		N0076305P	MIL-FER 410, 50 LB BFG	812014384	00000 02/24/2016	50.000	64.94	3,247.00	1679			02/00/0000
		Subtotal for Material N0076305P				50.000		3,247.00				
		N0134000S	NS4-FER 5 GAL ON	812014384	00000 02/24/2016	15.000	107.03	1,612.68	1679			02/00/0000
		Subtotal for Material N0134000S				15.000		1,612.68				
		N02918000G	X-CHEE 102 5 CPL	812014384	00000 02/21/2016	16.000	142.60	2,282.88	1679			02/00/0000
		Subtotal for Material N02918000G				16.000		2,282.88				
		N03394005P	WALUT HLB MED 50 LB BFG	812014384	00000 02/24/2016	50.000	36.03	1,801.50	1679			02/00/0000
		Subtotal for Material N03394005P				50.000		1,801.50				
		N0750000G	W.O. FEROM 5 GAL ON	812014384	00000 02/24/2016	16.000	78.25	1,252.00	1679			02/00/0000

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ZSER, SPANOROURTEN\_NEW  
 404047/338/100  
 SINGI REGION

SEWER HYPSES  
 Detail Well Receipt by Material

Page: 3  
 Date: 02/25/2016  
 Time: 16:50:29

Sales Organization: 1180  
 Division: 20  
 Well: 61848176

SH Oilfield Op:  
 Baker Hughes TNEQ  
 ENG 20H

Customer	Customer Name	Material	Material Description	Delivery	Tran	Ship Date	Quantity	Unit Price	Extended Price	Port. Income to Invoice date
		Subtotal for Material 18375900050					16.000		1,250.56	
		1850610050P	MED-LINE, 50 LB BKG	012014364	000030	02/24/2016	25.000	16.72	418.00	1679
		Subtotal for Material 1850610050P					25.000		418.00	00/00/0000
		1861000050P	SODIUM BROMIDE 50 LB BKG	012014364	000110	02/24/2016	49.000	24.46	1,199.52	1679
		Subtotal for Material 1861000050P					49.000		1,199.52	00/00/0000
		Subtotal for Customer 6012090					506.000		40,877.29	
		Total for the Well 61848176					506.000		40,877.29	

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7012 3460 0002 4924 2745

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Package	\$ 51
Certified Fee	345
Return Receipt Fee (Receipts Required)	250
Registered Delivery Fee (Receipts Required)	
Total Package & Fees	\$ 647

Send To: Robert Taylor  
 Street, Apt. No. or PO Box No.: 19167 Belmont Rd  
 City, State, ZIP+4: Belmont, WV 25030

PS Form 3800, August 2005 See Reverse for Instructions

7012 3460 0002 4924 2745

U.S. QUALITY CONTRACT SERVICE  
 FEB 26 2016  
 USPS 25301

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February 25, 2016

Mr. Gene Smith  
WV DEP – OOG  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Re: King 20H  
API: 47-1502906

Mr. Smith,

It has come to our attention that the King 20H API #47-1502906 permitted in November 2014 was only permitted to drill on air or freshwater. After two failed attempts to drill the intermediate section of this well on air we have discovered that this must be drilled on mud and ask to modify the existing permit on this well accordingly.

Attached please see a modified WW-9 form showing the changes necessary to drill this well on mud which we would ask be considered to modify the permit. I have discussed this matter with Mr. Doug Newlon today and he states that he and Jeremy James are aware of this request and have waived signing off on the same in person to expedite the request.

Should you have any questions, please feel free to contact us at (304) 344-9291.

Best Regards,

Danielle Boggs

Cc: Jeremy James  
Douglas Newlon

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**Westbrook, Joshua P**

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**From:** Danielle Boggs <dani.bays@cunninghamenergy.com>  
**Sent:** Tuesday, March 01, 2016 4:06 PM  
**To:** Westbrook, Joshua P  
**Subject:** FW: Permit Modification Request  
**Attachments:** SKMBT\_C35160225165000.pdf; Taylor - Certified Mail.jpg

Mr. Westbrook –

Please see attached permit modification and certified mail receipt. I previously sent this to Mr. Smith not realizing he was out. I just wanted to make sure this made it to the file ASAP.

Thanks,  
Danielle

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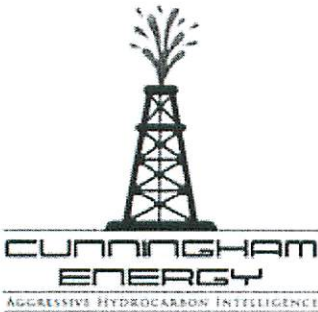
**From:** Danielle Boggs [mailto:dani.bays@cunninghamenergy.com]  
**Sent:** Thursday, February 25, 2016 3:58 PM  
**To:** Gene.C.Smith@wv.gov; 'Douglas.C.Newlon@wv.gov'; Jeremy.E.James@wv.gov  
**Cc:** ryan.cunningham@cunninghamenergy.com; hs.rhodes60@gmail.com  
**Subject:** Permit Modification Request

Mr. Smith –

Please see attached request for Permit Modification. I will be sending this information out to the landowner first thing in the morning via certified mail and will send you over copies of the cert. mail receipts upon completion.

Thank you,  
*Danielle N. Boggs*  
*Cunningham Energy*  
3230 Pennsylvania Ave  
Charleston, WV 25302  
Direct: (304) 344-9291  
Cell: (304) 553-5850  
Fax: (304) 344-9290  
[www.cunninghamenergy.com](http://www.cunninghamenergy.com)

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