



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, WV 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 at the end.

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

Promoting a healthy environment.

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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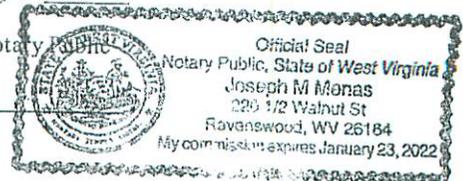
Company Official Signature _____

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

Company Official Title PRESIDENT

Subscribed and sworn before me this 25th day of FEBRUARY, 20 16

My commission expires January 23, 2022



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 HINES

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

Detail Bill Receipt by Material

Sales Organization: 1030
Division: 20
WZJ: 61848176

BU (Client): 01
Power Highest INTRG
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	MW 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	CLINEGPM ENERGY LLC											
		1000671	BITES	81201434	00010	02/24/2016	14.000	12.50	175.00	1679		00/00/0000
				81201450	00010	02/24/2016	10.000	12.50	125.00	1679		00/00/0000
				81201452	00020	02/24/2016	10.000	12.50	125.00	1679		00/00/0000
			Subtotal for Material 1000671				34.000		425.00			
		1000672	SHOCK WASTING	81201434	00010	02/24/2016	14.000	12.00	168.00	1679		00/00/0000
				81201450	00010	02/24/2016	10.000	12.00	120.00	1679		00/00/0000
				81201452	00010	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	81201434	00010	02/24/2016	7.000	130.00	910.00	1679		00/00/0000
				81201450	00010	02/24/2016	7.000	130.00	910.00	1679		00/00/0000
				81201452	00010	02/24/2016	7.000	130.00	910.00	1679		00/00/0000
			Subtotal for Material 1000684				21.000		2,730.00			
		1007029	MIL-G-85 S, SCLR BKG	81201434	00000	02/24/2016	50.000	25.00	1,250.00	1679		00/00/0000
			Subtotal for Material 1007029				50.000		1,250.00			
		1019715	PPS-12-01 150 HEL TANK 10"diax26'	81200640	00010	02/22/2016	1.000	96.26	96.26	1763		00/00/0000
			Subtotal for Material 1019715				1.000		96.26			
		1019721	(PESH-35) SCREEN BLK	81200620	00010	02/22/2016	1.000	0.00	0.00	1763		00/00/0000
			Subtotal for Material 1019721				1.000		0.00			
		1019930	SCM, CERRECK 500, R4P, APF 140, G2	81201445	00010	02/24/2016	8.000	330.53	2,644.24	1763		00/00/0000
			Subtotal for Material 1019930				8.000		2,644.24			
		1021304	SCA ASH LEMC, 50 LB, PPG	81201434	00010	02/24/2016	30.000	13.22	396.60	1679		00/00/0000

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2112 UNFORGIVEN, 154
 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	Invoice Date
		Subtotal for Material 10242624				20.000		396.60			
		10242626	2" FENESTRATED STAINL. STEEL SPWDR BARS	812006450	00000 02/22/2016	1.000	0.00	0.00	1763		02/02/0000
				812006450	00000 02/22/2016	1.000	0.00	0.00	1763		02/02/0000
		Subtotal for Material 10242628				2.000		0.00			
		10242627	2" FENESTRATED TANK, OPEN TOP, 150-150 HEL	812006450	00000 02/22/2016	1.000	0.00	0.00	1763		02/02/0000
		Subtotal for Material 10242627				1.000		0.00			
		10242628	2" FENESTRATED TANK, SR 150 HEL WITH MOTOR	812006450	00000 02/22/2016	1.000	0.00	0.00	1762		02/02/0000
		Subtotal for Material 10242628				1.000		0.00			
		10282024	62525-11-601 DE RLC-SIB HIGH G DREND	812006450	00000 02/22/2016	1.000	0.00	0.00	1763		02/02/0000
				812006450	00000 02/22/2016	1.000	0.00	0.00	1763		02/02/0000
		Subtotal for Material 10282024				2.000		0.00			
		10291655	MIL-FR 410, 3000 LB BULK BFG	812014384	00000 02/24/2016	3.000	459.25	1,378.05	1679		02/02/0000
				812014327	00000 02/24/2016	16.000	459.25	4,583.50	1679		02/02/0000
		Subtotal for Material 10291655				19.000		5,971.55			
		10437385	EXPANDED SPCL, 3000 LB BFG	812014504	00000 02/24/2016	10.000	411.69	4,116.90	1679		02/02/0000
		Subtotal for Material 10437385				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		02/02/0000
		Subtotal for Material N0020025P				40.000		5,707.20			
		N00766050P	MIL-FAC 14, 50 LB BFG	812014361	00000 02/24/2016	36.000	141.05	5,214.60	1679		02/02/0000
		Subtotal for Material N00766050P				36.000		5,214.60			
		N007630050P	MELTFFCH 50 LB BFG	812014384	00000 02/24/2016	50.000	64.94	3,247.00	1679		02/02/0000
		Subtotal for Material N007630050P				50.000		3,247.00			
		N01340005S	NS4-FRILL 5 GAL ON	812014354	00000 02/24/2016	15.000	107.03	1,712.48	1679		02/02/0000
		Subtotal for Material N01340005S				15.000		1,712.48			
		N02818000G	X-CHEE 102 5 OPL	812014384	00000 02/21/2016	16.000	142.60	2,282.88	1679		02/02/0000
		Subtotal for Material N02818000G				16.000		2,282.88			
		N033940050P	WOLUT HLB MED 50 LB BFG	812014384	00000 02/24/2016	50.000	36.03	1,801.50	1679		02/02/0000
		Subtotal for Material N033940050P				50.000		1,801.50			
		N0750002G	W.O. FERRO 5 GAL ON	812014384	00000 02/24/2016	16.000	78.25	1,252.56	1679		02/02/0000

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ZSER, SPANOROURTEN_NEW
 40M467/38E/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	Entered Price	Port. Income to Invoice date
		Subtotal for Material 18375900050					16.000		1,250.56	
		1850610050P	MD-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 60122040					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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CERTIFIED MAIL™ RECEIPT
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For Delivery Information visit our website at www.usps.com.

OFFICIAL USE

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 57th 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

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

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

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