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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, September 5, 2019  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

JAY-BEE OIL & GAS, INC.  
60 WALNUT AVE. SUITE 190

CLARK, NJ 07066

Re: Permit Modification Approval for GRUMPY 4  
47-095-02629-00-00

**Modify Casing Size on Surface and Conductor Casing**

JAY-BEE OIL & GAS, INC.

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.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin  
Chief

Operator's Well Number: GRUMPY 4  
Farm Name: DIANA SAMSON  
U.S. WELL NUMBER: 47-095-02629-00-00  
Horizontal 6A New Drill  
Date Modification Issued: September 5, 2019

Promoting a healthy environment.

WW-6B  
(04/15)

API NO. 47- 095 - 02629 Mon  
 OPERATOR WELL NO. Grumpy 4  
 Well Pad Name: Grumpy

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	H40	202	30'	30'	49 Cut Ft CTS
Fresh Water	13 3/8	New	H40	48	300'	300'	208 Cu Ft. CTS
Coal							
Intermediate	8 5/8	New	J55	24	2,000'	2,000'	508.43 CTS
Production	5 1/2	New	P110	17	17,007'	17,007'	2,615 CF-1000' from surface
Tubing	N/A						
Liners	N/A						

*JCB*  
8/4/2019

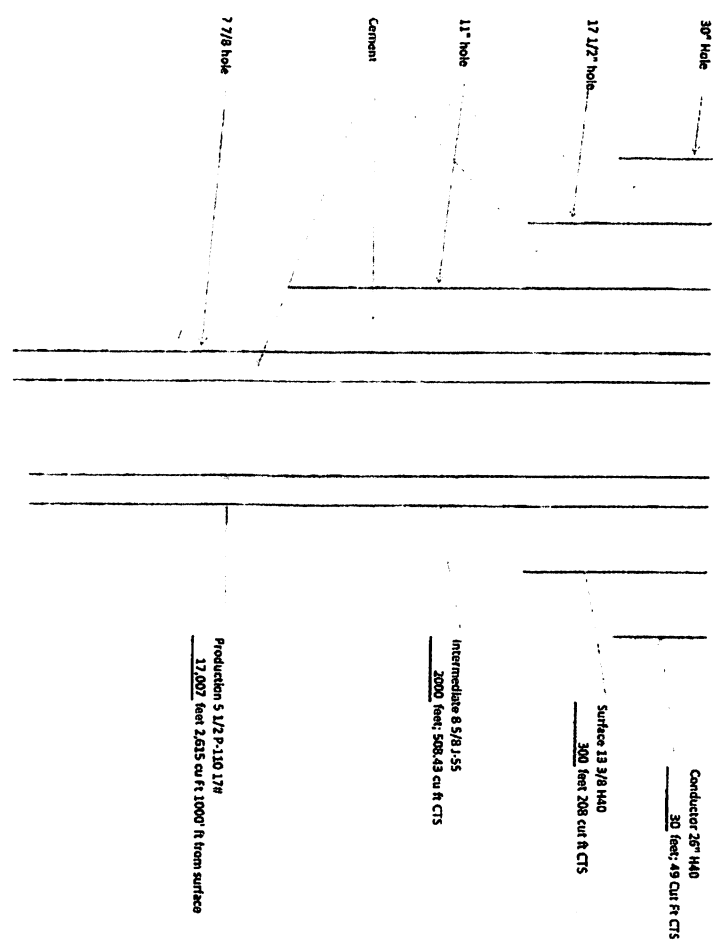
TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	.375	n/a	50	Class A	1.19
Fresh Water	13 3/8	17 1/2	.330	1,700#	1,000	Class A	1.26
Coal							
Intermediate	8 5/8	11	.264	2,950#	1,500	Class A	1.45
Production	5 1/2	7 7/8	.304	15,000#	2,500	Type 1 Cement	1.34
Tubing	N/A						
Liners	N/A						

PACKERS

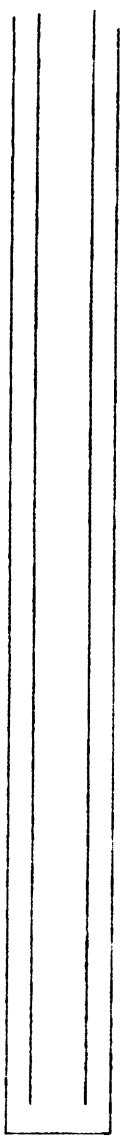
Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

4016220-590

Jay-Roe Oil & Gas Inc.  
Well Name Stumpy 4



Total depth  
17,007 feet



JCB  
8/4/2019

UGS-02629MOP



Jay Bee Oil and Gas, Inc.  
3570 Shields Hill Road  
Cairo, WV 26337

August 2, 2019

Permitting Office  
Office of Oil and Gas  
West Virginia Dept. of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

RE: Grumpy 4 Modification

Sir, Ma'am:

Please find Jay Bee Oil and Gas, Inc's modification to the Grumpy 4 well permit. The modification includes a change in size of the Conductor and Freshwater casings.

Sincerely,

A handwritten signature in black ink, appearing to read 'CL', located below the word 'Sincerely,'.

Chris Lindsey  
Office Manager