



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
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 2
47-095-02628-00-00

Modify Casing Sizes on Conductor and Surface 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 handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a faint circular stamp.

James A. Martin
Chief

Operator's Well Number: GRUMPY 2
Farm Name: DIANA SAMSON
U.S. WELL NUMBER: 47-095-02628-00-00
Horizontal 6A New Drill
Date Modification Issued: September 5, 2019

Promoting a healthy environment.

WW-6B
(04/15)

API NO. 47- 095-02628400
 OPERATOR WELL NO. Grumpy 2
 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	14,392'	14,392'	2,162 CF1000' from surface
Tubing	N/A						
Liners	N/A						

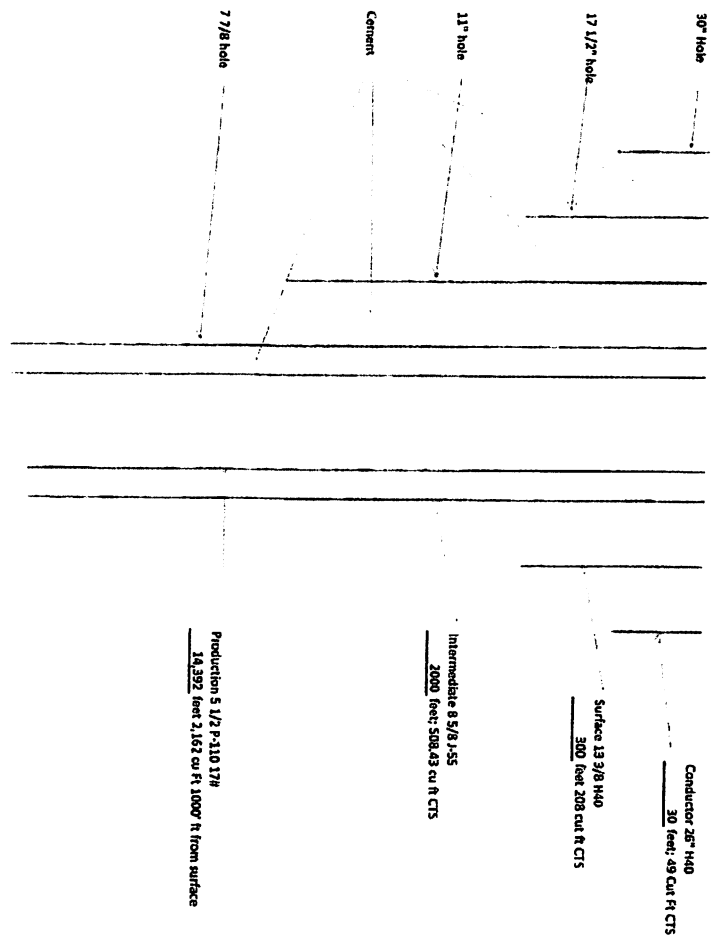
JCB
8/4/2019

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						

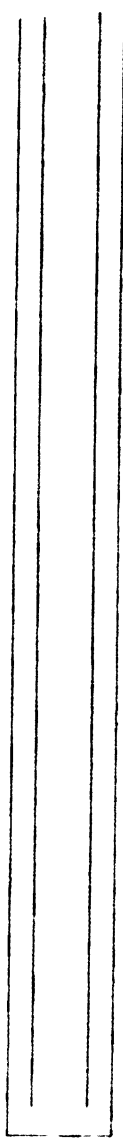
PACKERS

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

Jay-Bee Oil & Gas Inc.
Well Name Stumpy 2



Total depth
14,392 feet



JCB
8/4/2019



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 57th Street SE
Charleston, WV 25304

RE: Grumpy 2 Modification

Sir, Ma'am:

Please find Jay Bee Oil and Gas, Inc's modification to the Grumpy 2 well permit. The modification includes a change in size of the Conductor and Freshwater casings.

Sincerely,

Chris Lindsey
Office Manager