



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
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Austin Caperton, Cabinet Secretary
www.dep.wv.gov

02/05/2018
PERMIT MODIFICATION APPROVAL
Vertical / Solid Plug

K. PETROLEUM, INC.
81 MILL STREET, SUITE 205

GAHANNA, OH 432306510

Re: Permit Modification Approval for WB 11
47-109-01040-00-00

K. PETROLEUM, 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.

James A. Martin
Chief

Operator's Well Number: WB 11
Farm Name: POCAHONTAS LAND CORP.
U.S. WELL NUMBER: 47-109-01040-00-00
Vertical / Solid Plug
Date Issued: 02/05/2018

Promoting a healthy environment.



Patchwork Oil & Gas, LLC
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 Office of Oil and Gas

FEB 5 2018

WV Department of
 Environmental Protection

Office of Oil & Gas
 601 57th Street, SE
 Charleston, WV 25304-2345

RE: WB #11 47-109-01040 Plug modification

February 2, 2018

Our company is contracted to plug the WB #11 (47-109-01040) for K. Petroleum, Inc. Due to unforeseen problems we are needing to do a modification to the original approved plugging permit. We have found that the casing is collapsed at 75' and off set. The biggest thing that we can get down to the bottom of the well bore is 1'' tubing (1 11/16th) Bottom two plugs were set with 1'' tubing.

Set up to mill a 3 1/4'' hole down through the bad spot using Baker Hughes 2 7/8 drill collars and taper mill. Went from 75' to 79' (slow to very slow pace). Pulled out to check taper mill and the drill collars were badly rubbing. Put a more aggressive mill on and ran back in to try and mill, drill collars were still rubbing hard on the side of the hole. Pulled out, ran 1'' tubing down, had trouble getting down past the mill area but it did go. Plugs are currently set at 1301'-1027' and 960'-777' with a gel spacer in between.

Our modification plan work order would be as follows:

We plan to perforate casing from 777' to 570' approximately every 15' feet for adequate cement squeeze. We will perforate 2 shots per foot from 570-555', which will cover 5' below and 5' above the Pocahontas 3 coal seam. We will perforate from 555'-75' every 15' for adequate cement squeeze. The 4 1/2 casing will be cut at approximately 75' and removed. Expanding cement will be used for the entire cement column. Set monument and reclaim.

If you have any questions please contact Roger Whited at 304-481-2709 or 304-489-1500.

Thank you,

Jessica M. Lott