



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

February 16, 2018
PERMIT MODIFICATION APPROVAL
Vertical / Plugging

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

GAHANNA, OH 432306510

Re: Permit Modification Approval for WB 10
47-109-01047-00-00

PERFORATE AND CEMENT THROUGH 4 1/2" AND 8 5/8" CASING

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 10
Farm Name: POCAHONTAS LAND CORP.
U.S. WELL NUMBER: 47-109-01047-00-00
Vertical / Plugging
Date Issued: 02/16/2018

Promoting a healthy environment.



K. Petroleum. Inc.
81 Mill St. Suite 205
Gahanna, OH 43230

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

Re: WB #100000 47-109-01047 Permit Modification

February 15, 2018

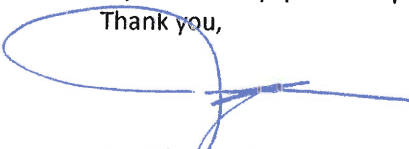
To whom it may concern,
Patchwork Oil & Gas, LLC was contracted to plug the WB #10 (47-109-01047) for our company. Due to unforeseen problems we are needing to modify the original approved plugging permit. They have found that the casing is pinched from a ground shift. Currently there is a Class A cement plug from 1350' to 1110' that was pumped through 1" tubing.

Our modification work order would be as follows:

- Perforate the casing from 770' (approximate cement top) up to the base of the Pocahontas 3 coal seam (which will be determined by an E-log) at a rate of one (1) shot per 50'.
- Perforate two (2) shots per foot from 5' below the base of the coal to 10' above. gum 2/16/18
- Perforate one (1) shot every 50' from the top of the coal to approximately 35' from surface.
- The top section of the 4 ½ pipe will be removed at the bad spot and the hole will be filled with expandable cement from approximately 770' to surface.

If you have any questions please feel free to contact me at 614-208-6009.

Thank you,



Jam Khorrami
President