

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

September 10, 2014

HG ENERGY, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit Modification Approval for API Number 4303472 , Well #: EPHRAIM GRIFFITH NO 215
TD WILL BE DEEPENED TO 4100' IN DEVONIAN SHALE

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,

gwm

Gene Smith

Assistant Chief of Permitting

Office of Oil and Gas

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STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1)	Well Opera	tor: HG	Energy, LL	<u> </u>					
2)	Operator's Well Number: Ephraim Griffith No. 215 3) Elevation 887'								
4)	Well Type:	(a) Oil	X or	Gas					
	(b) If Gas: Production Underground Storage								
5)	Proposed Target Formation(s): Berea/Shale								
6)	Proposed Total Depth: TVD 4100' ft.								
7)	7) Approximate fresh water strata depths: 245								
8)	Approximate salt water depths: 950'								
9)	Approximate coal seam depths: 310'								
10)	10) Does land contain coal seams tributary to active mine? Yes No X								
11)									
12) TYPE	12) <u>CASING AND TUBING PROGRAM</u> TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT								
		Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)		
Condu	actor								
Fresh	Water	7"	LS	17#	410'	410'	Cement to surface		
Coal									
Interm	ediate								
Produc	ction	4 1/2"	J-55	10.5#	4100'	4100'	200 Sacks		
Tubing	<u> </u>								
Liners									
Packers: Kind Sizes Depths set									
For Office of Oil and Gas Use Only [Fee(s) Paid Well Work Permit Reclamation Fund WPCP									
Pla	Plat WW-9 WW-2B Bond (Type)								