

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 05, 2014

HAUGHT ENERGY CORPORATION 12864 STAUNTON TURNPIKE SMITHVILLE, WV 26178

Re: Permit Modification Approval for API Number 8510130 , Well #: W 1650 DRILL NO MORE THAN 100' INTO ONONDAGA FOR LOGGING PURPOSES

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,

Gene Smith

Assistant Chief of Permitting

Office of Oil and Gas

SEP 4 2014

WW - 2B (Rev. 8/10)

WV Department of

Environmental Protection STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator:	Haught Energy Corporation	494494463	Ritchie	Murphy	Harrisville-5
		Operator ID	County	District	Quadrangle
2) Operator's Well	Number: W-1650		3) Elevation:	962'	-
4) Well Type: (a) C	Dil_X or GasX				
(b) If	Gas: Production X / Unde	rground Stor	age		
	Deep/ Sh	allow X			
6) Proposed Total7) Approximate fre8) Approximate sa9) Approximate co	et Formation(s): Lower Devonian/M Depth: 6050' Feet Formation Feet	ormation at P	roposed Tota	get Depth: On	andoga Lime
10) Approximate v	oid depths,(coal, Karst, other): <u>h</u>	None Noted in C	Ditset Wells		
11) Does land con	tain coal seams tributary to activ	re mine? No)		
	sed well work and fracturing metho				
	II. Stimulate with Nitrogen and/or Slick			TO WORK THE PARTY OF THE PARTY	reserve the there are a vicinity
Nitrogen Per Stage an	d/or approximately 9500 Barrels water	. (Fraq pit not to	exceed 5,000	Bbls, will supp	plement with tanks
or additional water ca	pacity)				

13) CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS

TYPE S	SPECIFIC	ATIONS		FOOTAGE INTERVALS CEMENT		
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13-3/8"	R-2	43.6#	30'	30'	Grout to Surface
Fresh Water	9-5/8"	R-3	26#	300'	300'	To Surface
Coal	NA	NA	NA	NA	NA	NA
Intermediate	7"	R-3	17#	2100'	2100'	To Surface
Production	4-1/2"	R-3	10.5#	6050'	6050'	250 Sacks, 2000' Fillup
Tubing	NA	NA	NA	NA	NA	NA
Liners	NA	NA	NA	NA	NA	NA

Packers: Kind: NA
Sizes: NA
Depths Set NA

Per WVDEP Guidelines, it is the intention of Haught Energy Corporation to drill no further than one hundred feet into the Onandoga Limestone during the drilling of this well.