

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 8510112 , Well #: W-1649
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	: Haugi	nt Energy	Corporation	494494463	Ritchie	Union	Harrisville	à
				Operator ID	County	District	Quadra	ngle
2) Operator's W	ell Numb	er: <u>W-164</u>	9		3) Elevation:	954'		
4) Well Type: (a)) Oil <u>X</u>	or Ga	sX					
(b)	If Gas:	Produ	ction <u>X</u> / Und	erground Stor	rage			
		Deep	/ S	hallow X				
5) Proposed Tar 6) Proposed Tot 7) Approximate 8) Approximate	al Depth fresh wa	: <u>^{6150'}</u> ter strata	Feet F	Formation at P	Proposed Targroposed Total	get Depth: 6 Il Depth: Onar	100' ndoga Lime	
9) Approximate					26			
10) Approximate	void de	pths,(coa	al, Karst, other):	None Noted in 0	Offset Wells			
11) Does land c	ontain co	al seam	s tributary to acti	ive mine? N	0			
12) Describe prop Drill new Oil & Gas \								00 SCF
Nitrogen Per Stage	and/or app	proximately	9500 Barrels wate	r. (Fraq pit not to	exceed 5,000 E	Bbls, will supple	ement with	tanks)
13)		-	SING AND TUE		Mark the second of the second	OCME	NT.	
TYPE S	PECIFIC	ATIONS		FOOTAGE	INTERVALS			
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	. Ft.)	
	40.0/01	DO	42 6#	201	20'	Grout to S	urface	

13)		CA	SING AND TUBING PROGRAM				
	SPECIFICATIONS			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#	6150'	6150'	250 Sacks, 3000' 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.