

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

March 21, 2014

CHESAPEAKE APPALACHIA, L.L.C. POST OFFICE BOX 6070 CHARLESTON, WV 25362

Re: Permit Modification Approval for API Number 6900155 , Well #: TIMMY MINCH OHI 3H Modified 13 3/8" casing

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

Regulatory/Compliance Manager

Office of Oil and Gas



Danielle Southall Regulatory Analyst II

March 21, 2014

VIA CERTIFIED MAIL

Ms. Laura Cooper Office of Oil & Gas 601 57th Street Charleston, WV 25304

Re: Modification to Timmy Minch OHI 3H API# 47-069-00155

Dear Ms. Cooper:

Enclosed please find a revised WW-6B and wbs for the above captioned well. We would like to modify the 13 3/8" casing because we have found out that we should hit coal around 450' vs. 530'. This well is situated on the Timmy Minch property, in Tridelphia District, Ohio County, West Virginia.

If you have any questions or require additional information, please contact me at 304-517-1416 ext 86024.

Sincerely,

Chesapeake Appalachia, LLC

Danielle Southall

Enclosure(s)

Received

MAR 2 2014

Office of Oil and Gas

Office of Oil and Gas

WW Dept. of Environmental Protection

WW - 6B (3/13)

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

) Well Operator:	Chesap	eake Appal	achia, LLC	494477557	69- Ohio	7- Triadelphia	674- Wheeling
, ii on operatori		APTA		Operator ID	County	District	Quadrangle
2) Operator's Well	Number:	Timmy Minch		~	Well Pad Nam	ne: _Timmy Minch C)HI Pad
Elevation, currer			El	evation, proposed	post-construc	tion: 1	208'
4) Well Type: (a)			Oil	Undergrour	nd Storage		
+) Well Type. (a)	Other -		-				
(b)	If Gas:	Shallow		Deep _			
		Horizontal			G IK	3/21/14	
5) Existing Pad? Y							
6) Proposed Targe	t Formatio	on(s), Depth((s), Anticipa	ited Thicknesses a	nd Associated	Pressure(s):	
Target Formation- Marc					ness-75', Associat	ed Pressure- 3819	
7) Proposed Total	Vertical I	Depth:	5,972'				
8) Formation at To			Marcellus				
9) Proposed Total			16,600'				
10) Approximate			pths:	390'			
11) Method to De				From WVDEP Contour M	ар		
12) Approximate			1250'				
			450'				
13) Approximate14) Approximate	Denth to	Possible Voi	-	e, karst, other):	450' Aba	andoned Mine.	
14) Approximate	Depth to	cation contain	n coal seam	s directly overlyin	g or		
adjacent to an	active m	ine? If so, inc	dicate name	and depth of fifth	·		
16) Describe pro	nosed wel	ll work:	Drill and stimulate	any potential zones between	en and including the	Benson to Marcellus.	** If we should encounter
a void, place basket a	bove and below	w void area- balance	cement to bottom	of void and grout from basi	ket to surface. Run ca	sing not less than 20	DEIGW VOIG HOL MOTO WASH
				t be protected, set casing 50) below and cis.)		
17) Describe frac	turing/sti	mulating met	thods in det	all: of water, sand, and chemics	al additives at a high ra	ate. This well be perfor	med in stages with the plug
Well will be perforated	the wellbore un	til the entire lateral h	as been stimulated	within the target formation. A	All stage plugs are then	drilled out and the we	Il is flowed back to surface.
The well is produced	through surface	e facilities consisting	g of high pressure	production units, vertical se	paration units, water a	and oil storage tanks.	
							bour
				ckpile area, pits, e	5.55		.6IAC
19) Area to be d	isturbed f	or well pad o	only, less ac	cess road (acres):	5.55	Her	Page 1 of 3
						•	Page 1 of 3
				388		Wb	1 Gas
							Office of Oil and Gas Office of Oil and Gas pt. of Environmental Propt. of 03/28/20
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WW - 6B (3/13)

20)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	<u>Grade</u>	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20"	New	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	500'	500'	470 SX/CTS
Coal	9 5/8"	New	J-55	40#	2000'	2000'	800 SX/CTS
Intermediate	7"	New	P-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	P-110	20#	16,600'	16,600'	Lead 838 ax Tail 2478 aw/1007 (maide intermediate
Tubing	2 3/8"	New	N-80	4.7#	Approx. 6,427'	Approx. 6,427'	
Liners							

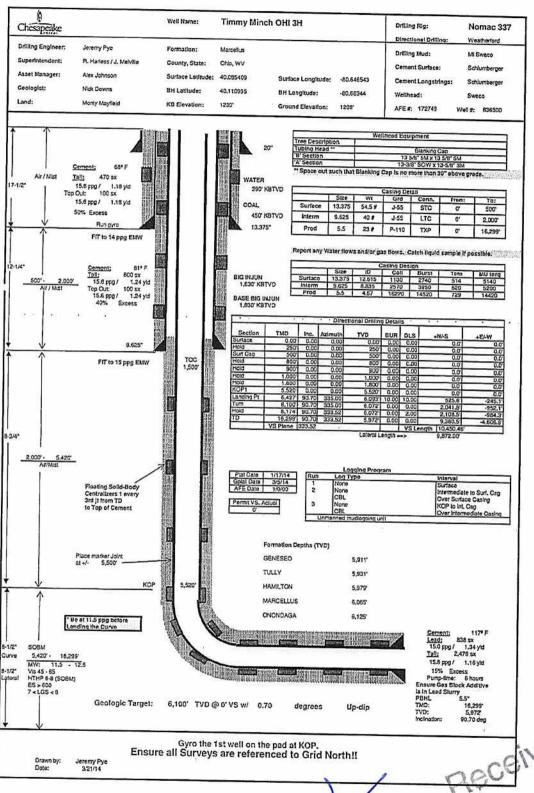
GJK 3/21/14

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	30"	0.25	2120	15.6 ppg	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	15.6 ppg	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	15.6 ppg	1.19/50% Excess
Intermediate	7"	8 3/4"	.0317	4360	15.6 ppg	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	15.6 ppg	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190			
Liners						

PACKERS

Kind:	10K Arrowset AS1-X	
Sizes:	5 1/2"	
Depths Set:	Approx. 6,197'	bo

Office of Oil and Gas Office of Environmental Protection



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NN Dept 03/28/2014

