

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

October 25, 2013

EQT PRODUCTION COMPANY POST OFFICE BOX 280 BRIDGEPORT, WV 26330

Re: Permit Modification Approval for API Number 1706250 , Well #: 514318

Extend Freshwater 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



October 24, 2013

Mr. Gene Smith
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Modification of 47-017-06251, 06250, 06249, 06248

Dear Mr. Smith,

Attached in this email are modifications to the above wells. EQT is modifying the fresh water casing because of red rock issues. Mr Adam Scarr spoke with you today concerning this and has asked that the modifications be issued immediately because we are currently drilling these wells.

The CPT 11 Pad has a current permitted casing depth of 804'. We have a proposed casing depth of 1030'. The Ground elevation for this pad is 1111'.

If you have any questions or need additional information, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark Permitting Supervisor-WV

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OCT 2 4 2013

CASING AND TUBING PROGRAM

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TYPE	Size	New	Grade	Weight per	FOOTAGE:	INTERVALS:	CEMENT:
		<u>or</u> Used		<u>(t.</u>	for Drilling	Left in Well	Fill- up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	1,030	1,030	893 C.T.S.
Coal	•	New	-	•	•	•	-
Intermediate	9 5/8	New	MC-50	40	5,242	5,242	2058 C.T.S.
Production	5 1/2	New	P-110	20	14,600	14,600	See Note 1
Tubing	2 3/8		J-55	4.6			will be set 100 less than TD
Liners							

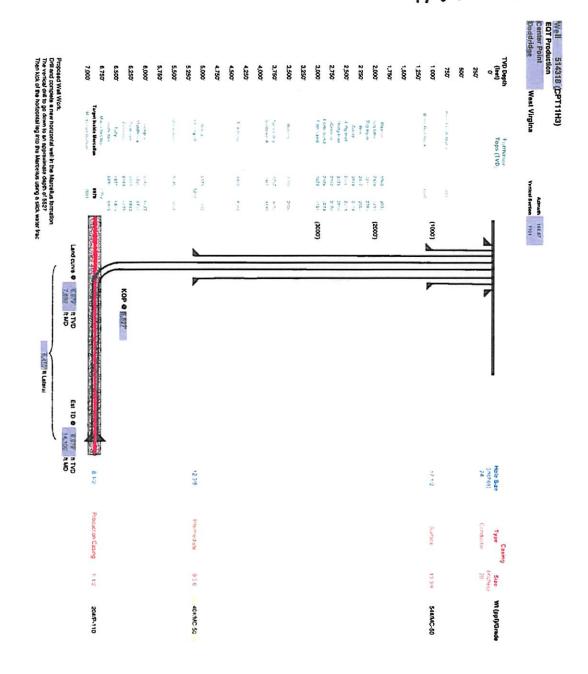
TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20	24	0.635	•	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	1	1.21_
Coal	<u>.</u>		•	•	-	•
Intermediate	9 5/8	12 3/8	0.395	3,590	1	1.21
Production	5 1/2	8 1/2	0.361	12,640	•	1.27/1.86
Tubing_						
Liners					_	

Packers

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

Received



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