

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

### PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re:

Permit Modification Approval for 515109

47-103-03162-00-00

Changing conductor easing from 20" to 26"

#### **EQT PRODUCTION COMPANY**

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.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: 515109

Farm Name: COASTAL FOREST RESOURCES COMPANY D/B/A COASTAL T

U.S. WELL NUMBER: 47-103-03162-00-00

Horizontal 6A / New Drill

Date Issued: 6/13/2017

Promoting a healthy environment.

WW-6B	
(04/15)	

API NO. 47- 103 -	03162
<b>OPERATOR WELL</b>	NO. 515109
Well Pad Name	BIG360

18)

## **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	856	856	757 ft^3 / CTS
Coal		***************************************		***************************************			
Intermediate	9 5/8	New	A-500	40	2480	2480	971 ft^3 / CTS
Production	5 1/2	New	P-110	20	12771	12771	500' above top producing zone
Tubing	2 3/8		J-55	4.7	<u> </u>	May not be run, if run set 40° above top perf or 80° inclination	
Liners		***************************************				and the property of the proper	7900000

DMH 6/7/17

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	.375	1378	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners						<u> </u>	

# **PACKERS**

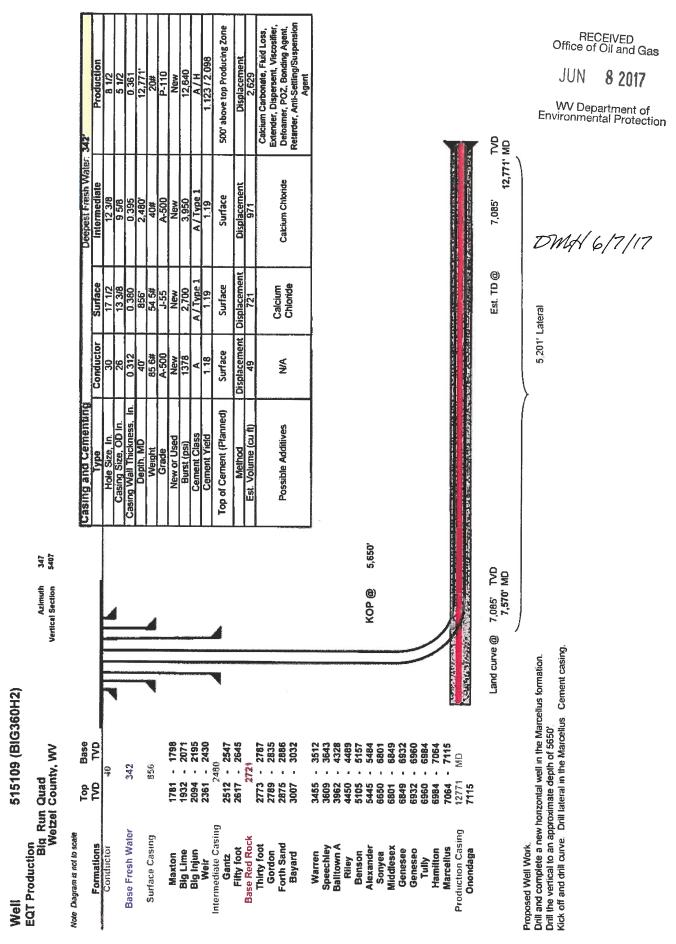
Kind:			
Sizes:			
Depths Set:		A CONTRACT OF THE CONTRACT OF	
	nie siegengrammanne		

RECEIVED Office of Oil and Gas

JUN 8 2017

WV Department of Environmental Protection Page 2 of 3

103-03162





June 7, 2017

Laura Adkins
West Virginia Department of Environmental Protection
601 57th Street SE
Charleston, WV 25304

Re: Modification 47-10303159, 03162, 03163, 03164, 03165

Dear Ms. Adkins,

Attached are modifications for the above API numbers. The conductor casing has been changed from 20" to 26". The inspector Derek Haught approved this change.

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

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Enc.

RECEIVED Office of Oil and Gas

JUN 8 2017

WV Department of Environmental Protection