

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 Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

PERMIT MODIFICATION APPROVAL Horizontal 6A / Horizontal 6A Well - 1

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

Re:

Permit Modification Approval for 513702

47-017-06771-00-00

Adding Additional Lease

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.

James A. Martin

Chief

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

Operator's Well Number: 513702

Farm Name: HART, RONALD & JEFFERY U.S. WELL NUMBER: 47-017-06771-00-00

Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 1/12/2017

Promoting a healthy environment.



October 20, 2016

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

Re: Modification of 47-01706771

Dear Mr. Smith,

Enclosed is an updated 6A1 form, and mylar plat. Lease number 117513 has been added to both forms, due to the close proximity of the lease to the top hole.

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

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Enc.

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

see attached

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company

By: Victoria J. Roark

Its: Permitting Supervisor

Page 1 of 2

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty		
107453	Mona R. Cumberledge, et al (current royalty owner)				
	S. E. Gaston, et al (original lessor)	A. D. Wells		LB 22/420	
	A. D. Wells	Fisher Oil Company/O.D. Harrington		LB 24/16	
	Fisher Oil Company/O.D. Harrington	The Philadelphia Company of WV		LB 24/64	
	The Philadelphia Company of WV	Pittsburgh & West Virginia Gas Company		45/102	
	The Philadelphia Company of WV	Pittsburgh & West Virginia Gas Company		LB 32/253	
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		DB 121/257	
	Equitable Gas Company	Equitrans, Inc		LB 154/475	
	Equitrans, Inc	Equitrans, L.P.		329/645	
	Equitrans, L.P.	Equitable Production-Eastern States, Inc		LB 192/19	
	Equitable Production-Eastern States, Inc	EQT Production Company		DB 281/346	
<u>114449</u>	Glenn H. Shive, et al (current royalty owner)		***		
	F.E. Gaston, et ux (original lessor)	The Philadelphia Company of WV		LB 32/463	
•	The Philadelphia Company of WV	Pittsburgh & WV Gas Company		LB 32/253	
	Pittsburgh & WV Gas Company	Equitable Gas Company		DB 121/257	
	Equitable Gas Company	Equitrans, Inc		LB 154/475	
	Equitrans, Inc	Equitrans, L.P.		329/645	
	Equitrans, L.P.	Equitable Production-Eastern States, Inc		LB 192/19	
	Equitable Production-Eastern States, Inc	EQT Production Company		DB 281/346	
<u>114447</u>	C. Burke Morris & S.A. Smith, et al (current royalty owner)		***		
	Jane Woofter (original lessor)	The Philadelphia Company of WV		LB 32/468	
	The Philadelphia Company of WV	Pittsburgh & WV Gas Company		LB 32/253	
	Pittsburgh & WV Gas Company	Equitable Gas Company		DB 121/257	
	Equitable Gas Company	Equitrans, Inc		LB 154/475	
	Equitrans, Inc	Equitrans, L.P.		329/645	
	Equitrans, L.P.	Equitable Production-Eastern States, Inc		LB 192/19	
	Equitable Production-Eastern States, Inc	EQT Production Company		DB 281/346	
<u>117513</u>	WBM Heirs Properties, LLC, at al (current royalty owner)		***		
	W. Brent Maxwell, ey ux (original lessor)	Pittsburgh & West Virginia Gas		DB 37/48	
	Pittsburgh & WV Gas Company	Equitable Gas Company		DB 121/257	
	Equitable Gas Company	Equitrans, Inc		LB 154/475	
	Equitrans, Inc	Equitrans, L.P.		329/645	
	Equitrans, L.P.	Equitable Production-Eastern States, Inc		LB 192/19	
	Equitable Production-Eastern States, Inc	EQT Production Company		DB 281/346	

^{***} We will pay a minimum one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced, or marketed from the well

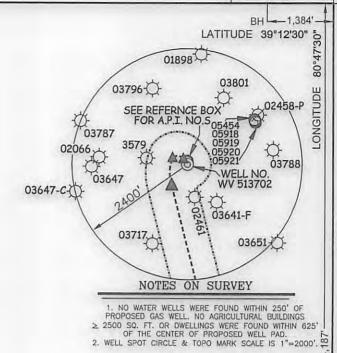
OXF160 WV 513702 EQT PRODUCTION COMPANY

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH) NAD'27 S.P.C.(FT) N. 250,860.78 E. 1,631,718.31 NAD'27 GEO. LAT-(N) 39.181449 LONG-(W) 80.799198 N. 4,336,941.20 NAD'83 UTM (M) E. 517,358.30

LANDING POINT

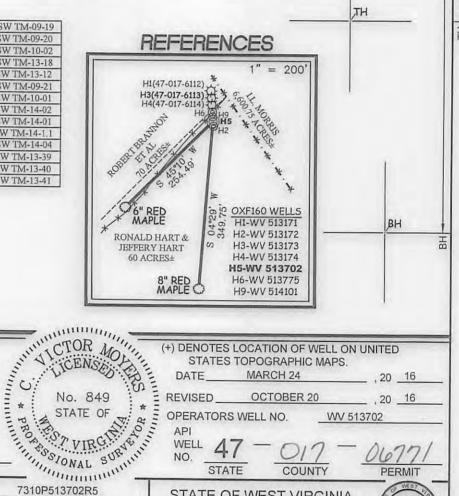
NAD'27 S.P.C.(FT) N. 250,424.85 E. 1,631,392.02 LAT-(N) 39.180239 LONG-(W) 80.800326 N. 4,336,806.74 E. 517,261.11 NAD'27 GEO. NAD'83 UTM (M) **BOTTOM HOLE**

NAD'27 S.P.C.(FT) N. 246,455.07 E. 1.632.405.57 NAD'27 GEO. LAT-(N) 39.169381 LONG-(W) 80.796549 NAD'83 UTM (M) N. 4,335,602.52 E. 517,590.07



ROYALTY	OWNERS	
GLENN H. SHIVE ET AL	53 AC.±	LEASE NO. 114449
C. BURKE MORRIS & S.A. SMITH ET AL	28 AC.±	LEASE NO. 114447
WBM HEIRS PROPERTIES, LLC ET AL	1891.25 AC.±	LEASE NO. 117513

A	ROBERT BRANNON ET AL	70 ACRES±	SW TM-09-19
В	RONALD HART & JEFFERY HART	60 ACRES±	SW TM-09-20
C	I.L. MORRIS	6,600.75 ACRES±	SW TM-10-02
D	ROBERT BRANNON ET AL	25.1 ACRES±	SW TM-13-18
E	RONALD HART & JEFFERY HART	46 ACRES±	SW TM-13-12
F	RONALD HART & JEFFERY HART	45 ACRES±	SW TM-09-21
G	MARIA HRUSCOV	57.5 ACRES±	SW TM-10-01
H	WILLIAM ARMENTROUT ET AL	44.35 ACRES±	SW TM-14-02
1	MICHAEL & SUSAN ZORN	52,5 ACRES±	SW TM-14-01
J	MICHAEL & SUSAN ZORN	47.5 ACRES±	SW TM-14-1.1
K	WILLIAM ARMENTROUT ET AL	16.8 ACRES±	SW TM-14-04
L	EDWARD & GINA BASSETT	41 ACRES±	SW TM-13-39
M	MARIAN ZORN	34.78 ACRES±	SW TM-13-40
N	WILLIAM ARMENTROUT ET AL	76 ACRES±	SW TM-13-41



Land & Energy Development
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I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

PS 849

MINIMUM DEGREE 7310P513702R5 FILE NO. OF ACCURACY 1/2500

SEE NOTE 2 SCALE HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. DATE_ MARCH 24 , 20 _ 16 REVISED_ OCTOBER 20 , 20 _ 16 OPERATORS WELL NO. WV 513702 API WELL NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS



WELL TYPE: OIL	GAS_X INJECTION	WASTE DISPOSAL	IF "GAS" PRODUC	TION_X STORAGE	DEEP	SHALLOW X
LOCATION: PAD ELEVATION	1,220'	_ WATERSHED		MIDDLE FORK OF SOUTH		
DISTRICT	SOUTHWEST	COUNTY_	DODDRIDGE	QUADRANGLE	OXFORD	0
SURFACE OWNER	RONALD HART & JEFFER	Y HART		ACREAGE	60±	IN T
ROYALTY OWNER	MONA R. CUMBERLEDGE	ET AL		ACREAGE	206±	× × × × ×
PROPOSED WORK	:			LEASE NO	107453	01/20/201
DRILL X CONVERT DRILL DEEPER REDRILL			FRACTURE OR STIMULAT	E_X_ F	LUG OFF OLD	
FORMATION	PERFORATE NEW FORMAT	TION PLI	UG AND ABANDON	CLEAN OUT AND	REPLUG	_ OTHER
PHYSICAL CHANGE IN WELL (SPECIFY)			т	ARGET FORMATION	MARCELL	.us 🖫
				ESTIMATED DEPTH	6,603'	RN

WELL OPERATOR EQT PRODUCTION COMPANY

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

BRIDGEPORT, WV 26330

DESIGNATED AGENT REX C. RAY

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

BRIDGEPORT, WV 26330

