

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 24, 2016

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BRIDGEPORI, WV 26330

Re: Permit Modification Approval for API Number 9502256, Well #: 514464

Extend Lateral, Sub-surface Easement

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



January 12, 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 47-095-02257, 02264, 02255, 02220, 02256

Dear Mr. Smith,

Enclosed is an updated WW-6B, schematics, WW-6A1, rec plan, Site Safety plan and mylar plat. EQT would like to revise the length of the lateral. The top hole has not changed. The Safety plan is being updated to include changes to the cement. All has been signed by the inspector.

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

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Enc.

WW - 6B (4/15)

4709502256 MOD 6

API NO.	47	-	095	-	02256
PERATO	RWE		514464		
Vell Pad Name:					SHR60

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

Well Operator: EQT Produc	tion Company		306686	095	5	607	
			Operator ID	County	District	Quadrangle	Э
2) Operator's Well Number:		514464		_Well Pad Nam	e	SHR60	
3) Farm Name/Surface Owner :	Vivia	ın J Wells et	al	_ Public Road A	ccess:	60/2	
4) Elevation, current ground:	1,018.0	Elevation	n, proposed p	ost-construction:	1,011.0		
5) Well Type: (a) Gas	Oil	Und	erground Stora	ge			
Other							
(b) If Gas:	Shallow		Deep				
	Horizontal				Day	4	
6) Existing Pad? Yes or No:	yes				Des 1.	-16	
7) Proposed Target Formation(s), Target formation is Marcellus at	a depth of 6596	with the anticipa		e 52 feet and antic		ure of 274	7 PSI
8) Proposed Total Vertical Depth:		100 011	iarociiao. cor i	6596			
9) Formation at Total Vertical Dep	oth:			Marcellus			
10) Proposed Total Measured De	nth:			12556			
11) Proposed Horizontal Leg Leng	oth:			5231			
12) Approximate Fresh Water Stra	ata Depths:			83,133,570,	906		
13) Method to Determine Fresh W	ater Depth:			By offset we	ells		
14) Approximate Saltwater Depths	3:			1198, 1865			
15) Approximate Coal Seam Dept	hs:		19, 4	20, 686, 875, 13	115		
16) Approximate Depth to Possible					None repo	rted	
17)Does proposed well location co	ontain coal seams	directly over					
adjacent to an active mine?			Ye	<u> </u>	_ No		
(a) If Yes, provide Mine Info:	Name:						
	Depth:						
	12						
	Owner:						

Page 1 of 3

WW - 6B (4/15)

4709502256 Nago

API NO.	47		095	0.5	02256
DPERATO	RWE	LL NO			514464
Well Pad	d Nar	ne:			SHR60

CASING AND TUBING PROGRAM

18)

TYPE	<u>Size</u> (in)	<u>New</u> <u>or</u> Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: for Drilling	INTERVALS: Left in Well	CEMENT: Fill- up (Cu.Ft.)
Conductor	20	New	A-500	78.6	60	60	90 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	1,006	1,006	936 C.T.S.
Coal	-	-	-	-	= =	-	
Intermediate	9 5/8	New	A-500	40	2,788	2,788	1,088 C.T.S.
Production	5 1/2	New	P-110	20	12,556	12,556	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

				DMH	1-11-16		
TYPE	<u>Size (in)</u>	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	Cement Yield (cu. ft./k)
Conductor	20	26	0.375	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2,184	* See Note 2	1.19
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,950	3,160	* See Note 2	1.19
Production	5 1/2	8 1/2	0.361	12,640	10,112	•	1.07/1.86
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 500' above the top producing zone.

Note 2: Reference Variance 2014-17. (Attached)

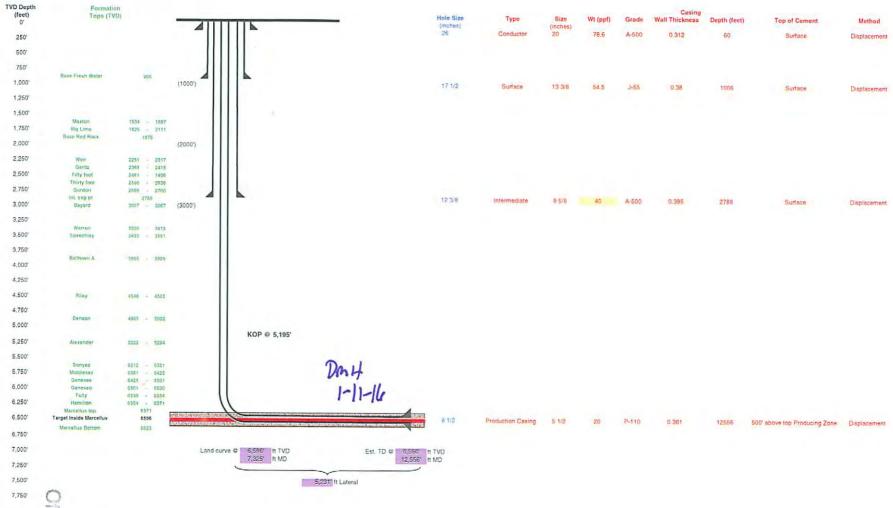
Page 2 of 3

WW		6
(10/1	4)

4709502256 Mar 6

API NO.	47	10	095	-	02256
PERATO		514464			
Well Pad Name:					SHR60

Drill and complete a new horizontal well in the Marcellus formation.	ck of any pilot hole:
Drill the vertical to an approximate depth of 5195'.	
Kick off and drill curve. Drill lateral in the Marcellus. Cement casing. 20) Describe fracturing/stimulating methods in detail, including anticipate	ed max pressure and max rate:
Hydraulic fracturing is completed in accordance with state regulations using water recycler	d from previously fractured wells and obtained from
freshwater sources. This water is mixed with sand and a small percentage (less than 0.39	%) of chemicals (including 15% Hydrochloric acid.
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the in anticipated internal casing pressure is expected to average approximately 8500 psi, maxim	ndustry as a "slickwater" completion. Maximum
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately	v 200,000 barrels of water per stage. Sand sizes
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per	stage.
21) Total area to be disturbed, including roads, stockpile area, pits, etc,	(acres): no additional
22) Area to be disturbed for well pad only, less access road (acres):	wa additional
23) Describe centralizer placement for each casing string.	no additional
• Surface: Bow spring centralizers - One at the shoe and one spaced ev	very 500'.
• Intermediate: Bow spring centralizers— One cent at the shoe and one s	spaced every 500'.
 Production: One spaced every joint from production casing shoe to KO 	<u> </u>
24) Describe all cement additives associated with each cement type.	Surface (Type 1 Cement): 0-3% Calcium Chloride
Used to speed the setting of cement slurries.	
0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of the c	cement slurry to a thief zone.
<u>Intermediate (Type 1 Cement)</u> : 0-3% Calcium Chloride. Salt is used in shallow, low tslurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss	temperature formations to speed the setting of cement
to a thief zone.	
Production:	Don't 1-11-16
	1-11-16
Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix)15%	SuperFL-300 (fluid loss/lengthens thickening time)
.15% SEC-10 (fluid loss) 50:50 POZ (extender)	
Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time3%	Super FL-200 (fluid loss)
.2% SEC-10 (Fluid loss)2% SuperFL-350 (fluid loss) Reduces amount of water	ter lost to formation.
60 % Calcuim Carbonate. Acid solubility.	
25) Proposed borehole conditioning procedures. <u>Surface: Circulate hole cleaned in the condition one full joint until cuttings diminish at surface. When cuttings returning to surface.</u>	e diminish, continue to circulate an additional 5
minutes. A constant rate of higher than expected cuttings volume likely indicate	es washouts that will not clean up.
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciproca	ating one full joint until cuttings diminish at
surface. When cuttings returning to surface diminish, continue to circulate an ad	dditional 5 minutes. If foam drilling, to enhance
hole cleaning use a soap sweep or increase injection rate & foam concentration.	
Production: Pump marker sweep with nut plug to determine actual hole washout. Calo	
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clea	
the shakers every 15 minutes.	Da
	Office of Oil & Ga
*Note: Attach additional sheets as needed.	JAN 1 4 2016





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 dep.wy.gov

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

1

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

Office of Qil & Gas JAN 1 4 2016



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 dep.wv.gov

BEFORE THE OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA

IN THE MATTER OF A VARIANCE FROM)	ORDER NO.	2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)		
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)		
THE OPERATIONAL)		
REGULATIONS OF CEMENTING OIL)		
AND GAS WELLS)		

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
 hours.

Promoting a healthy environment.

CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas

Received
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JAN 1 4 2016

WW-9 (2/15)

API No. 47 095 0 514464 Operator's Well No.

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	EQT Production Company	OP Code	306686	
	Morrison Run of McElroy Creek			
	ore than 5,000 bbls of water to com			No
Will a pit be used ? Yes: _	X No:			
	pe anticipated pit waste:	flowback water	& residual solids	
Will a synthetic line	r be used in the pit? Yes X	No	If so, what ml.?	60
Proposed Dispos	Reuse (at API Number	C Permit Number Variou rm WW-9 for disposal	IS	<u>)</u>)
	en prepared for transportation to an off-	site disposal facility.		
	I for this well (vertical and horizonta		Section of the section	
	e wellbore (surface, intermediate, and pilot). Water based hole, curve, and lateral sections will be drilled with either			
- The plant	Nove, carre, and lateral sections will be diffed with eather a	air, water based mud, or oil based m	ud.	Dont
W W				Dout
- If oil based, wh Additives to be used in drill	at type? Synthetic, petroleum, etc		nthetic mud	
	ntrol, deflocculates, biodegradable oil lubrica	ubricant, detergent, defoaming, w int, defoaming, walnut shell		viscosifer.
	oil, emulsifier, salt, lime, viscosifer, alkalinity			
biodegradable oil lubricant, defoa	ming, carbonates.			
Drill cuttings disposal mot	hod? Leave in pit, landfill, removed	-11-11-		
	an to solidify what medium will be used? (Ce		Landfill n/a	
	name/permit number?	See Attach	TWO V R AND THE REST OF THE RE	
Permittee shall provide written any West Virginia solid waste disclose where it was properly	notice to the Office of Oil and Gas of a facility. The notice shall be provided wit disposed.	ny load of drill cuttings or thin 24 hours of rejection	associated waste reject and the permittee shall	eted at also
on August 1, 2005, by the Office of provisions of the permit are enforce	nd agree to the terms and conditions of the of of Oil and Gas of the West Virginia Departme reable by law. Violations of any term or cond tent action.	ent of Environmental Protect	tion. I understand that the	
I certify under penalty of lav	v that I have personally examined and am fa	miliar with the information s	ubmitted on this	
the information, I believe that the in	its thereto and that, based on my inquiry of t information is true, accurate, and complete. I ling the possibility of fine or imprisonment.			
Company Official Signature		d 1/1		
Company Official (Typed Na Company Official Title		Victoria J. Roark		
	Pen	mitting Supervisor		
Subscribed and sworn before	re me this day of _	Decem	DUM, 20_	5 Received
River	a a mana	MULT	Notary Public	Office of Oil 4 Gas
My commission expires OFFICIAL SEAL	9 4-7-20			JAN 1 4 2016
NOTARY PUBLIC STATE OF WEST VIRGINIA REBECCA L. WANSTREE EQT PRODUCTION COMPANY PO BOX 280 BRIGGEPORT, WY 26330 My commission expires April 07, 202	\$			03/25/2016

Form WW-9

		Operato	r's Well No.	51446
Proposed Revegetation Trea	tment: Acres Disturbed	no additional	Prevegetation	n pH6.3
Lime3	Tons/acre or	to correct to pH	6.5	
Fertilize type	Granular 10-20-	20		
Fertilizer Amount	1/3 lbs	s/acre (500 lbs minimum)		
Mulch	2	Tons/acre		
		Seed Mixtures		
Tempora Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	Permanent	lbs/acre
Alsike Clover	5	Alsike Clover		5
Annual Rye	15			
Photocopied section of involve	ed 7.5' topographic she	et.		
Plan Approved by:				
Comments:				
itle: Oil + Ger I	rspe ofor	Date: /-//-/	6	
ield Reviewed? () Yes	6 () No	

03/25/2016

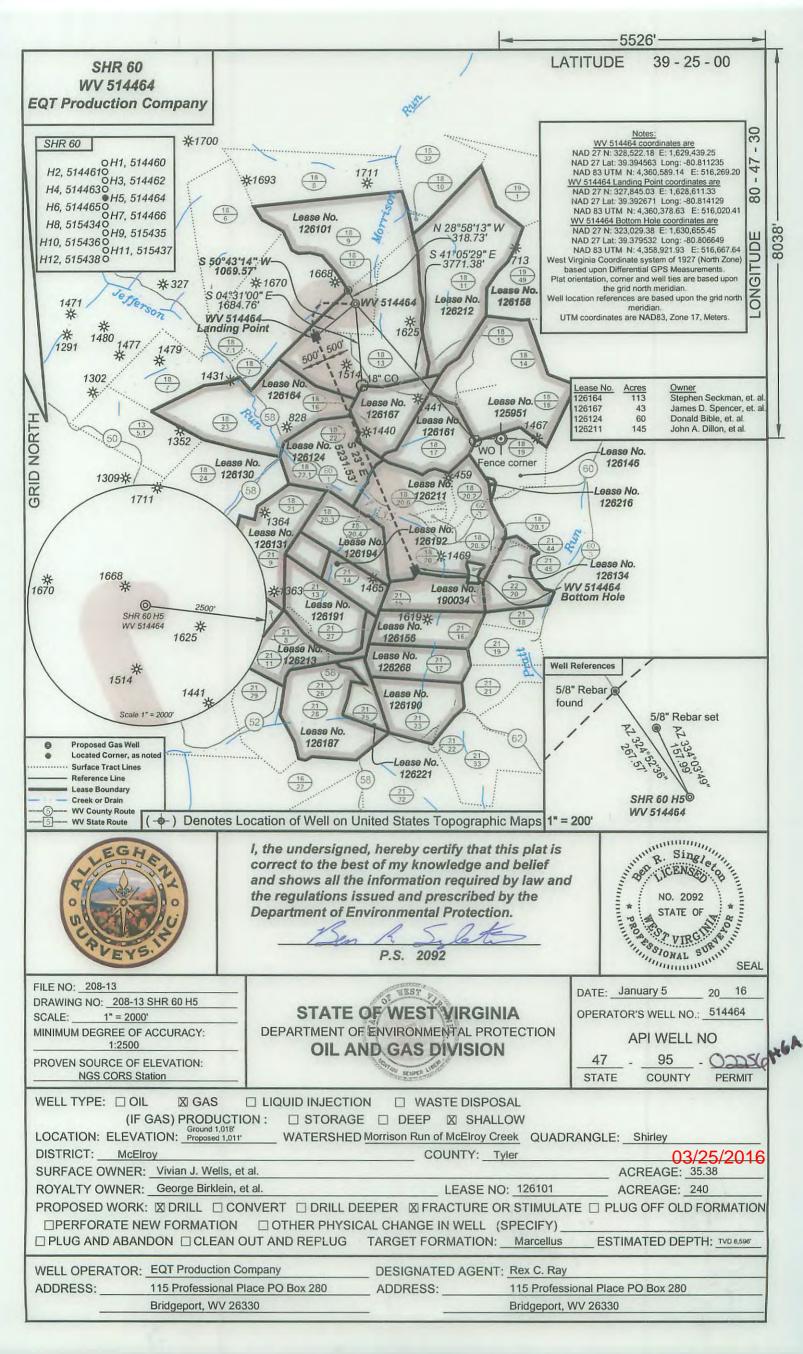


Site Specific Safety Plan

EQT SHR 60 Pad

Shirley Tyler County, WV

314460 51446	of 514462 51	Wells: 51446	4 5/4465 514466
EQT Production	October 24, 2014		Gas Inspector Gas Inspector Gas Inspector Gas Inspector Gas Inspector
			Office of Oil & Gas



WW-6A1	
(5/13)	

Equitrans, L.P.

Operator's Well No.

045-0256 1514464

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 -

- 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;
- 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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/I	Page
126101	George Birklein, et al (current royalty own	Min 1/8 pd	5000	. 1.50	
	WM. Blaine Underwood Et ux et al (original lessor)	Equitable Gas Co.	-	DB186/86	
	Equitable Gas Co.	Equitrans, Inc.		DB274/471	
	Equitrans, Inc./Equitable Gas Company/Equitable Resrouces, Inc.	Equitrans, L.P.		DB433/777	
	Equitrans, L.P.	EQT Production Company		DB396/640	
	Equitrans, L.P.	EQT Production Company		OG420/10	Tyler Co.
5-18-7.1	Decade I Arbier et el	FOT Devilentes On	81/4		Subsurface Agreem
	Brenda J. Ashley, et al	EQT Production Company	N/A	508/181	Attached
5-18-7.1	Patricia A. Keys	EQT Production Company	N/A	514/375	Subsurface Agreen Attached
<u>126164</u>	Stephen Seckman et al (current royalty ow	/ner)	Min 1/8 pd		
	Retha Seckman, et al(original lessor)	Equitable Gas Co.	·	DB192/351	
	Equitable Gas Co.	Equitrans, Inc.		DB274/471	
	Equitrans, Inc./Equitable Gas Company/Equitable Resrouces, Inc.	Equitrans, L.P.		DB433/777	
	Equitrans, LP	EQT Production Company		DB396/640	Tyler
<u>126167</u>	James D. Spencer et al (current royalty owner)		Min 1/8 pd		
	Savannah Pratt, et al (original lessor)	Equitable Gas Co.	·	DB192/425	
	Equitable Gas Co.	Equitrans, Inc.		DB274/471	
	Equitrans, Inc./Equitable Gas Company/Equitable Resrouces, Inc.	Equitrans, L.P.		DB433/777	
	Equitrans, L.P.	EQT Production Company		DB396/640	
126124	Donald Bible et al (current royalty owner)		Min 1/8 pd		
	Clyde Stewart, et ux (original lessor)	Equitable Gas Co.		LB191/165	
	Equitable Gas Co.	Equitrans, Inc.		DB274/471	
	Equitrans, Inc./Equitable Gas Company/Equitable Resrouces, Inc.	Equitrans, L.P.		DB433/777	
	· · · · · · · · · · · · · · · · · · ·				

EQT Production Company

Received Office of Oil & Gas

Tyler

DB396/640

Page 1 of 2

095-02250 MOP

126211	John A. Dillon et al (current royalty owner)	Min 1/8 pd	,	
	Mary E. Underwood, et vir (original lessor)	Hope Natural Gas Co.	DB70/477	
	Hope Natural Gas Co.	Consolidated Gas Supply Corp.	DB169/26	
	Consolidated Gas Supply Corp.	Consolidated Gas Transmission Corp.	DB249/287	
	Consolidated Gas Transmission Corp.	CNG Development Co.	DB253/57	
	CNG Development Co.	Dominion Appalachian Development, Inc.	DB337/340	
	Dominion Appalachian Development, Inc.	Consol Gas Appalachian Development, LLC	CB9/131	name change
	Consol Gas Appalachian Development, LLC	CNX Gas Co., LLC	CB9/206	name change
	CNX Gas Co., LLC	EQT Production Co.	DB479/55	
	CNX Gas Co., LLC/Noble Energy, Inc	EQT Production Co.	AB505/222	

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

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:

Its: Permitting Supervisor

Page 2 of 2



095-02256

EQT Production Company 2400 Zenith Ridge Rd. Suite 200 Canonsburg, PA 15317 www.eqt.com

Todd Klaner Manager, Permitting tklaner@eqt.com

January 12, 2016

WV DEP Reviewer

RE: EQT Production Company

PAD ID - SHR60 Well# - 514464 Tyler County

Dear Reviewer,

This well indicated by this permit application contains a Subsurface Easement Agreement for non-productive portions of the well bore. Attached is a Memorandum of Subsurface Use Agreement which gives EQT the right to drill below the surface of the tracts 18-7.1 shown on the well plat.

EQT Production understands that the WVDEP will issue the permit in the normal process subject to the completeness of the requirements of the Office of Oil and Gas and does not take a position with regards to the property rights under this agreement.

EQT Production agrees that the WVDEP's issuance of the permit is in no way an affirmance or validation of EQT Production's claimed rights.

Regards,

Todd Klaner

Manager, Permitting

EQT Production Company

Received Office of Oil & Gas

Teresea R Hamilton TYLER County 01:21:34 PM Instrument No 114424 Date Recorded 11/05/2015 Document Type AGR Pages Recorded 2 Book-Page 508-181

MEMORANDUM OF SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT OF \$5.00 Additional

I. NAME AND ADDRESS OF GRANTOR:

Brenda J. Ashley and Stephen D. Ashley 1048 Middle Island Road Middlebourne, WV 26149

2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

LIS PRUFESSIUNAL PLADE PU BUX 280 BRIDGEPORT, NV 26330-0280

- 3. SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT REFERENCE: A SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT dated the 5th day of October, 2015, was entered into for good and valuable consideration by and between Brenda J. Ashley and Stephen D. Ashley, her husband, ("Grantor", whether one or more) and EQT Production Company ("Grantee").
- 4. DESCRIPTION OF PREMISES: That certain tract or parcel of land containing 102.31 acres, more or less, located on the waters of Jefferson Run in Tyler County. West Virginia, being the same lands conveyed to Grantor by Deed dated the 15th day of October, 1998, of record in the Office of the Clerk of the County Commission of Tyler County, West Virginia in Deed Book 326, at Page 372. ("the Property").
- 5. TERM: The SUBSURFACE RIGHT-OF-WAY AND EASEMENT shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Grantor, in writing.

(REMAINDER OF PAGE LEFT BLANK INTENTIONALLY)

IN WITNESS WHEREOF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR:

GRANTEE:

EOT Production Company

Brenda J. Ashley

By: John W. Damato Its: Attorney in fact

STATE OF WEST VIRGINIA;

COUNTY OF TYLER:

I, John Knopp, a Notary Public, in and for said State and County, do hereby certify that Brenda J. Ashley and Stephen D. Ashley ____, personally known to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be their free act and deeds for uses and purposes therein set forth.

Given under my hand this 5th day of October . 2015.

My Commission expires:

July 25, 2021



OFFICIAL SEAL Notary Public, State of West Virginia JOHN LKNOPP x 434 Station Camp Road Leroy, WV 25252 My commission expires July 25, 2021

Notary Public

STATE OF WEST VIRGINIA :

COUNTY OF HARRISON

___, a Notary Public, in and for said State and County, do 1. Tina Maxwell hereby certify that John W. Damato, personally known to be the same person whose name is subscribed to the foregoing instrument and the Attorney in fact of EQT Production Company, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be his free act and deed for uses and purposes therein set forth on behalf of said company.

Given under my hand this 12th day of October. 2015.

My Commission expires: Ulugust 29, 2019

Notary Public Office of Oil & Gas

JAN 1 4 2016

This instrument was prepared by EQT Production Company, 1710 Pennsylvania Avenue, Charleston, WV 25302

MEMORANDUM OF SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

1. NAME AND ADDRESS OF GRANTOR:

Patricio A. Keys 536 Briarcliff CT New Martinsville, WV 26155

2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

- 3. SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT REFERENCE: A SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT dated the 29th day of September, 2015, was entered into for good and valuable consideration by and between Patricia A. Keys, a single woman ("Grantor", whether one or more) and EQT Production Company ("Grantee").
- 4. <u>DESCRIPTION OF PREMISES</u>: That certain tract or parcel of land containing 102.31 acres, more or less, located on the waters of Jefferson Run in Tyler County. West Virginia, being the same lands conveyed to Grantor by Deed dated the 15th day of October, 1998, of record in the Office of the Clerk of the County Commission of Tyler County, West Virginia in Deed Book 326, at Page 372, ("the Property").
- 5. TERM: The SHBSURFACE RIGHT-OF-WAY AND EASEMENT shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Granter, in writing.

(REMAINDER OF PAGE LEFT BLANK INTENTIONALLY)

Office of Online Reports 164722 See Reports 164722



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IN WITNESS MITERICIFF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR:

GRANTEE:

EQT Production Company

Patricia A. Roys

By: John W. Damato

Hst Attorney in fact

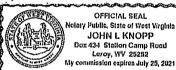
STATE OF WEST VIRGINIA;

COUNTY OF WEIZEL:

1, John Knopp, a Notary Public, in and for said State and County, do hereby certify that Patricia A. Keys, a single woman, personally known to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be their free act and deeds for uses and purposes therein set forth.

Given under my band this 29th day of September, 2015.

My Commission expires: July 25, 2021



Notary Public

STATE OF WEST VIRGINIA :

COUNTY OF HARRISON ::

1. In Maxwell , a Notary Public, in and for said State and County, do hereby certify that John W. Damato, personally known to be the same person whose name is subscribed to the foregoing instrument and the Attorney in fact of EQT Production Company, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be his free art and deed for uses and purposes therein set forth on behalf of said company.

Given under my hand this Lst day of October, 2015.

My Commission expires:

Marst 29,2019

Notors

Received Office of ा ६ Gas

This instrument was prepared by EQL Production Company, 1710 Fearesty min. Acome. Charlesten, WV 25302