

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 BRIDGEPORT, WV 26330

Re: Permit Modification Approval for API Number 9502220, Well #: 514463

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, Tuybe Bran

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)

4709502220MoV

API NO.	47	-	095	 02220
OPERATO	RWE	LL NO		514463
Well Pag	d Nar	ne:		SHR60

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

1) Well Operator: EQT Production Co	mpany	306686	095	5	607	
		Operator ID	County	District	Quadrangle	
2) Operator's Well Number:	514463		Well Pad Nam	e	SHR60	
3) Farm Name/Surface Owner :	Wells et al. Fa	arm	Public Road A	ccess:	60/1	
4) Elevation, current ground: 1,01	8.0 Eleva	ation, proposed	post-construction	:1,011.	0	
5) Well Type: (a) Gas	OilU	nderground Sto	rage			
Other						
(b) If Gas: Shall	ow	Deep				
Horizo	ntal					
and the same of th				Dan	H 1-16	
6) Existing Pad? Yes or No: yes	<u> </u>			1-1	1-16	
7) Proposed Target Formation(s), Depth Target formation is Marcellus at a depth	of 6596 with the antic		be 52 feet and antic		sure of 2747 PSI	
Proposed Total Vertical Depth:			6596			
9) Formation at Total Vertical Depth:		Marcellus				
10) Proposed Total Measured Depth:			13158			
11) Proposed Horizontal Leg Length:			5086			
12) Approximate Fresh Water Strata Dep	-		83,133,570,	906		
13) Method to Determine Fresh Water D	epth:		By offset we	ells		
14) Approximate Saltwater Depths:			1198, 1865			
15) Approximate Coal Seam Depths:		19,	420, 686, 875, 13	315		
16) Approximate Depth to Possible Void				None repo	orted	
17)Does proposed well location contain o	coal seams directly ov					
adjacent to an active mine? (a) If Yes, provide Mine Info: Nar			es	_ No		
(a) if res, provide Mine mio: Nar						
Sea						
Ow	-				-	

Page 1 of 3

WW - 6B (4/15)

4709502220 MP OPERATOR WELL NO.

API NO. 47 - 095 -02220 514463 SHR60 Well Pad Name:

CASING AND TUBING PROGRAM

TYPE	Size	New	Grade	Weight per ft.	FOOTAGE:	INTERVALS:	CEMENT:
	<u>(in)</u>	<u>or</u> <u>Used</u>		(lb/ft)	for Drilling	<u>Left in Well</u>	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	1,002	1,002	933 C.T.S.
Coal	/- J=	-	-	-	-	<u> </u>	
Intermediate	9 5/8	New	P-110	40	5,067	5,067	1,990 C.T.S.
Production	5 1/2	New	P-110	20	13,158	13,158	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							

				Dr	m+ 1-11-16		
TYPE	<u>Size (in)</u>	<u>Wellbore</u> <u>Diameter (in)</u>	Wall Thickness (in)	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	9,030	7,224	* 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)

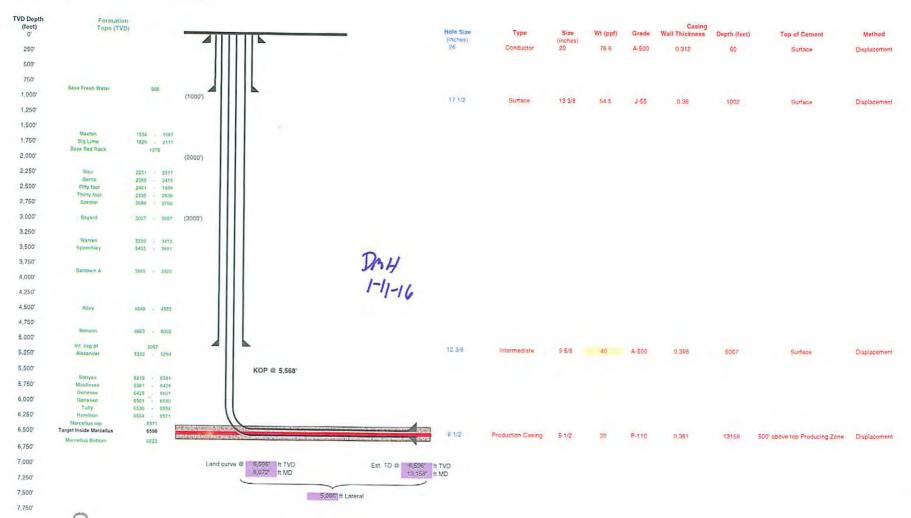
Page 2 of 3

WW	-	6
(10/1	4)

4709502220 Nov or

PINO.	47	-	095	 02220
PERATO	RWE	LL NO		514463
Vell Pa	d Nar	ne:		SHR60

19) Describe proposed well work, including the drilling and plugging back	k of any pilot hole:
Drill and complete a new horizontal well in the Marcellus formation.	
Drill the vertical to an approximate depth of 5568'.	
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 recycled freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%)	
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	
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately	
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per	
21) Total area to be disturbed, including roads, stockpile area, pits, etc,	(acres): no additional
22) Avec to be disturbed for well and only less seems (5-1)	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
22) Area to be disturbed for well pad only, less access road (acres):23) Describe centralizer placement for each casing string.	no additional
 Surface: Bow spring centralizers – One at the shoe and one spaced ev 	vory 500'
 Intermediate: Bow spring centralizers - One at the shoe and one spaced ev 	spaced every 500'
Production: One spaced every joint from production casing shoe to KO	SPACEU EVERY 300 .
The second of th	<u>a </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.
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low t	temperature formations to speed the setting of cement
slurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss	s of whole drilling fluid or cement slurry (not filtrate)
to a thief zone.	
Production:	DMIT
	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</u> : Circulate hole cle	
one full joint until cuttings diminish at surface. When cuttings returning to surface	
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
nole cleaning use a soap sweep or increase injection rate & foam concentration.	
Production: Pump marker sweep with nut plug to determine actual hole washout. Calc	culate a gauge holes bottoms up volume.
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clea	
the shakers every 15 minutes.	Olloo di Sala
	JAN 1 4 2016



Proposed Well Work
Drill and complete a new horizontal well in the Marcellus formation.
Drill the vertical to an approximate depth of 5588'.
Kick off and drift-curve. Drill laterating the Marcellus. Cement casing

of Oil & Gas



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

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.

Sincerely,

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.



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	í		
REGULATIONS OF CEMENTING OIL	í		
AND GAS WELLS	í		

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

Fiscalived
Office of Oil & Gas
JAN 1 4 2016

Well Well 400 Scale: 1"=200' Detail sketch for Wells WV 514460. 514461, 514462, 514463, 514464, 514465, 514466, 515434, 515435, 515436, 515437, 515438 Shirley 7.5' USGS QUADRANGLE Proposed Disturbance Area Projected culvert inventory (for bid purposes only) Well Site Location See Site Plan 15" minimum diameter culverts Proposed Access Road See Site Plan See Site Plan 24" minimum diameter culverts See Site Plan Approximate Total Disturbance See Site Plan Dale Tomlin PS 208-13 DRAWING FILE NO. ACAD-208-13-Rec Plan October 24, 2014

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC. 1-800-482-8606

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608

237 Birch River Road P.O. Box 438 Birch River, WV 26610



Received

JANA L W.

WW-9 (2/15)

API No. 47 -	095	-	C
Operator's Wel	I No.		514463

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	
Watershed (HUC10)	Morris Run of McElroy Creek	Quadrangle	Shirley 7.5'	
Do you anticipate using m	nore than 5,000 bbls of water to com	nplete the proposed we	I work? Yes x No	
Will a pit be used ? Yes:	X No:			
If so please descri	be anticipated pit waste:	flowback water	& residual solids	
Will a synthetic lin	er be used in the pit? Yes X	NoI	f so, what ml.? 60	
Proposed Dispos	sal Method For Treated Pit Wastes:			
-	Land Application		Later Design Street	
	Underground Injection (UI Reuse (at API Number	C Permit Number Variou		<u>)</u>
-	Off Site Disposal (Supply fo	orm WW-9 for disposal		
	Other (Explain			<u>)</u>
Will closed loop system be	e used ? Yes, The closed loop syst	em will remove drill cutting	gs from the drilling	
fluid. The drill cuttings are the	nen prepared for transportation to an off	f-site disposal facility.		
Drilling medium anticipate	d for this well (vertical and horizonta	al)? Air, freshwater, oil I	pased, etc.	
	he wellbore (surface, intermediate, and pilot). Water base			
and drill the intermediate section. The pilo	t hole, curve, and lateral sections will be drilled with either	r air, water based mud, or oil based m	id.	
- If oil based, w	hat type? Synthetic, petroleum, etc	Svr	thetic mud	
Additives to be used in dri	and the state of t		iter. Water based mud – Barite, visco	siler,
	ontrol, deflocculates, biodegradable oil lubric	ant, defoaming, walnut shell	salt, x-cide, carbonates.	
	oil, emulsifier, salt, lime, viscosifer, alkalinity	control, filtration control, defl	occulates,	— Dr. 4 — 1-11-16
biodegradable oil lubricant, defo	aming, carbonates,			-11-16
Drill cuttings disposal me	thod? Leave in pit, landfill, removed	I offsite etc	Landfill	
	an to solidify what medium will be used? (Ce		n/a),
	name/permit number?	See Attache		
NAME OF THE OWNER.				
Permittee shall provide writter any West Virginia solid waste disclose where it was properly	n notice to the Office of Oil and Gas of a facility. The notice shall be provided w disposed.	any load of drill cuttings or ithin 24 hours of rejection	associated waste rejected and the permittee shall also	at O
I certify that I understand a	and agree to the terms and conditions of the	GENERAL WATER POLLLE	TION DEDMIT issued	-
on August 1, 2005, by the Office	of Oil and Gas of the West Virginia Department	ent of Environmental Protect	on. I understand that the	
provisions of the permit are enfor or regulation can lead to enforcer	ceable by law. Violations of any term or cond	dition of the general permit ar	d/or other applicable law	
application form and all attachme	w that I have personally examined and am fa nts thereto and that, based on my inquiry of	amiliar with the information su	ibmitted on this	Received
he information, I believe that the	information is true, accurate, and complete.	I am aware that there are sig	nificant penalties for	Office of Oil & Gas
submitting false information, inclu-	ding the possibility of fine or imprisonment			JAN 1 4 2016
Company Official Signature		# 1/1		JAN 1 4 2016
Company Official (Typed N		Victoria J. Roark		=
Company Official Title _	Per	mitting Supervisor		
	V-21			
Subscribed and sworn befo	re me this day of	December)r ,20 15	
Robera	a d. 1110001	troot		77
1000-000	1 C CC	DUE	Notary Public	
ly commission expires	4-1-20			
OFFICIAL SEAL	(

		Operato	r's Well No.	514463	
Proposed Revegetation Trea	atment: Acres Disturbed	no additional	Prevegetation	рН	6.3
Lime3	Tons/acre or	to correct to pH	6.5		
Fertilize type	Granular 10-20-	20			
Fertilizer Amount	1/3lbs	s/acre (500 lbs minimum)			
Mulch	2	Tons/acre			
		Seed Mixtures			
Tempor			Permanent		
Seed Type KY-31	lbs/acre	Seed Type		lbs/acre	
NY-31	40	Orchard Grass		15	
Alsike Clover	5	Alsike Clover		5	
Annual Rye	15				
Drawing(s) of road, location,p					
Plan Approved by:	1./				
Comments:					
Fitle: Oil I Con T	and a	Date: Lu			
itle: Oil + Ges I			16		
Field Reviewed? () Yes	G () No		



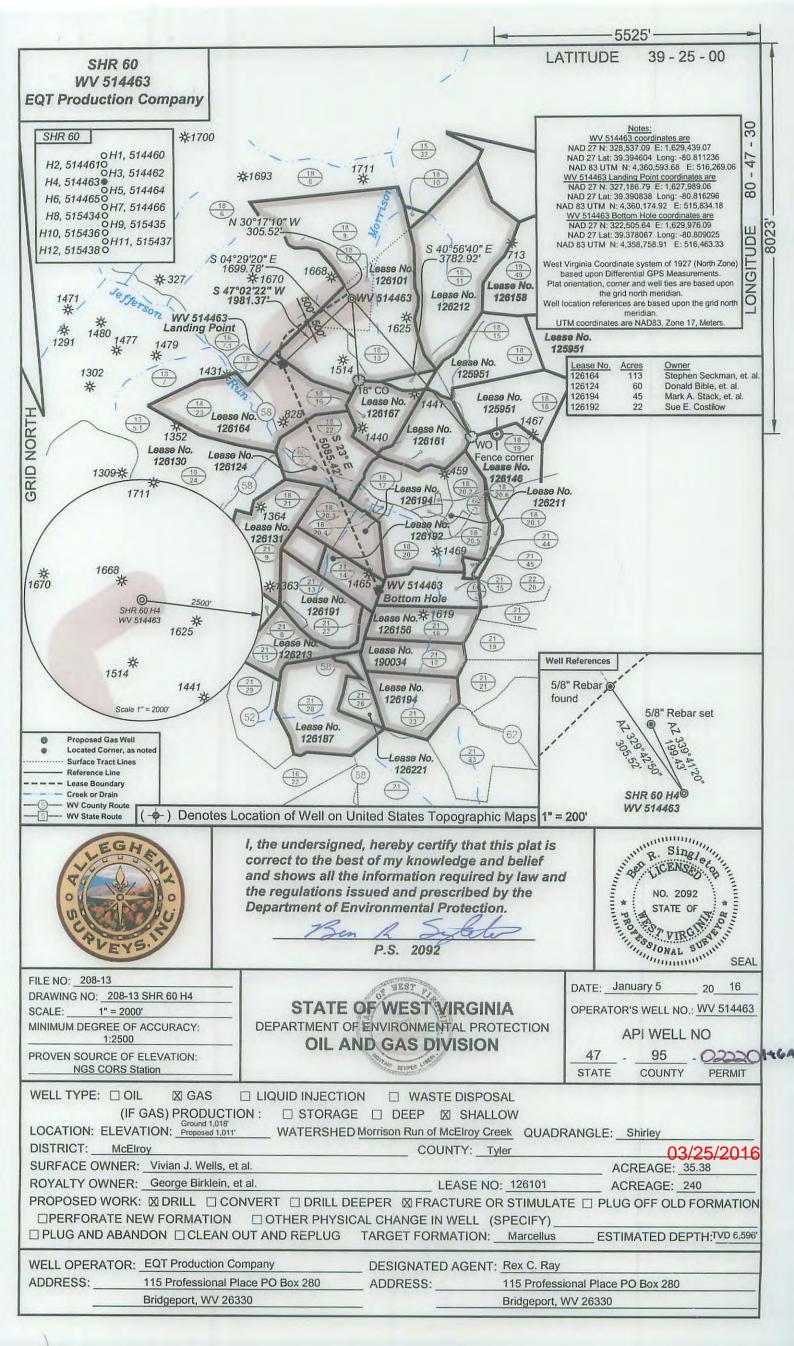
Site Specific Safety Plan

EQT SHR 60 Pad

Shirley
Tyler County, WV

514460 51	4461 514467	For Wells: 5/4463	514464 5	14465 514466
Date Prepared: EQT Production Penin. Hing J Jitle 1/7/10 Date	October 24, 2014 Percusar	Date I	Reviewed: <u>December</u> WV Oil and Gas Institle Title -//-/6	Page of Page of
			(Office of Chill Gas

JAN 1 4 2016



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
<u>126101</u>	George Birklein, et al (current royalty owner)		Min 1/8 pd		
	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	Brenda J. Ashley, et al	FOT Braduction Company		500404	Subsurface Easement
	brenda v. 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 Easement Altached
126164	Stephen Seckman et al (current royalty owne	r)	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, L.P.	EQT Production Company		DB396/640	Tyler
<u>126124</u>	Donald Bible et al(current royalty owner)		Min 1/8 pd		
	Clyde Stewart, et ux (originial 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	
	Equitrans, L.P.	EQT Production Company		DB396/640	Tyler
126194	Mark A. Stack et al (current royalty owner)		Min 1/8 pd		
	D.L. Haught et ux, et al (original lessor)	Equitable Gas Co.	will 176 pa	195/465	
	Equitable Gas Co.	Equitrans, Inc		274/471	
	Equitrans, Inc./Equitable Gas Company/Equitable Resrouces, Inc.	Equitrans, L.P.		DB433/777	
	Equitrans, L.P.	EQT Production Company		DB396/640	Tyler

Page 1 of 2

4709502230 MOT

126192	Sue E. Costilow (current royalty owner)

Min 1/8 pd Equitable Gas Co.

Rex Underwood, et al (original lessor)
Equitable Gas Co.
Equitrans. Inc
Equitrans, L.P.

Equitrans, Inc.
Equitrans, L.P.
EQT Production Company

DB195/472 DB274/471 DB433/777 DB396/640 Tyler

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 Compa
By:

Its:

Permitting Supervisor

Page 2 of 2

1709502220 MOD



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

Todd Klaner Manager, Permitting tklaner@eat.com

January 12, 2016

WV DEP Reviewer

RE: EQT Production Company

PAD ID - SHR60 Well# - 514463 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

4709502220MGP

TYLER County 01:21:34 PM Instrument No 114424 Date Recorded 11/05/2015 Document Type ASR Pages Recorded 2

1. 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

- 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. <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").
- 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)

TO WINESTON, M. 2630-0280

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



Notary Public

STATE OF WEST VIRGINIA :

COUNTY OF HARRISON

____ a Notary Public, in and for said State and County, do Tipa 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: August 29, 2019

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGIN TINA MAXWELL

May Public aywell

MEMORANDUM OF SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

1. NAME AND ADDRESS OF GRANTOR:

Patricia A. Neys 536 Briarcliff CT New Martinsville, WV 26155

2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company 625 Liberty Avenue Suite 1760 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. DESCRUTTON 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)

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Instrument Ne 118900
Instrume

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IN WITNESS AMOUNCE, the parties have signed their names hereto as of the date of the Agreement action seed in Section 3 above.

GRANTOR:

GRANTEE:

EOT Production Company

By: John W. Damato Hst Attorney in fact

STATE OF WEST VIRGINIA:

COMMITT OF WHITZELL

t, John Enopp, a Flotary 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 ael nowledged and delivered the said instrument to be their free act and deeds for uses and purposes therein set forth.

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

My Commission expires: July 25, 2021



OFFICIAL SEAL Nelaty Public, State of West Virginia JOHN L KNOPP ox 434 Station Camp Hoad Leroy, WV 25252 My commission expires July 25, 202

Notary Public

STATE OF WEST YERGINIA :

COUNTY OF HARRISON :

Fina 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 soid 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 Lat day of Outder 2015