

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

January 27, 2016

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BRIDGEPORI, WV 26330

Re: Permit Modification Approval for API Number 10303031, Well #: 515109

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



December 11, 2015

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

Re: Modification of 47-103-03034, 03033, 03032, 03031, 03030

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.

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

Sincerely,

Vicki Roark Permitting Supervisor-WV 4701030331 MOV

Enc.

Office of Oil and Gas

DEC 1 4 2015

Environmental Protection

WW - 6B (4/15)

API NO.	47	-27	103	-	03031
PERATO	R WE	LL NO			515109
Mall Par	d Mar	mo.			PIC260

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

306686	103	4	254
Operator ID	County	District	Quadrangle
	_ Well Pad Nam	ie	BIG360
esources	_ Public Road A	ccess:	Rt 76
ation, proposed p	ost-construction:	998.0	
Inderground Stor	age		
Deep			
		Don	+
		17-1	0-15
messes and Asso	ociated Pressure	(c).	V 13
			ure of 2620 PSI
		pated target press	2020 F31
	7087		
	Marcellus		
	The second second		
	5201		
No shows for	and in completion	reports within	4000'
			-
	By offset we		
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26 er): verlying or Yes	By offset we 1961, , , 9, 429,650, 752	None repo	rted
	Operator ID esources ation, proposed p Inderground Stora Deep knesses and Associated thickness to be If Marcellus: 7064	Operator ID County Well Pad Namesources Public Road A ation, proposed post-construction. Inderground Storage Deep Deep Construction Inderground Storage Deep Analysis and Associated Pressure of Marcellus: 7064 7087 Marcellus 12771 5201	Operator ID County District Well Pad Name esources Public Road Access: ation, proposed post-construction: 998.0 Inderground Storage Deep Deep Conesses and Associated Pressure(s): inpated thickness to be 51 feet and anticipated target press of Marcellus: 7064 7087 Marcellus 12771 5201

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DEC 1 4 2015

ww		6B	,
(4/15	()		

API NO.	47	4	103	1.90	03031
OPERATO	RWE	LL NO			515109
Well Pag	d Nar	ne:			BIG360

CASING AND TUBING PROGRAM

18)

TYPE	Size (in)	<u>New</u> or	Grade	Weight per ft. (lb/ft)	FOOTAGE: for Drilling	INTERVALS: Left in Well	CEMENT:
	70.17	<u>Used</u>		(ID/II)	ior Drining	<u>Leit iii vveii</u>	Fill- up (Cu.Ft.)
Conductor	20	New	A-500	78.6	40	40	60 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	856	856	790 C.T.S.
Coal	-	-	-	-	-	_	
Intermediate	9 5/8	New	A-500	40	2,480	2,480	971 C.T.S.
Production	5 1/2	New	P-110	20	12,771	12,771	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							

VAH 12-10-15

TYPE	Size (in)	Wellbore	Wall	Burst Pressure	Anticipated	Cement	Coment Vield
	SIZO (III)	Diameter (in)	Thickness	(psi)	Max. Internal	<u>Type</u>	Cement Yield (cu. ft./k)
			<u>(in)</u>		Pressure (psi)		
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)

4701030331 MOD

Page 2 of 3

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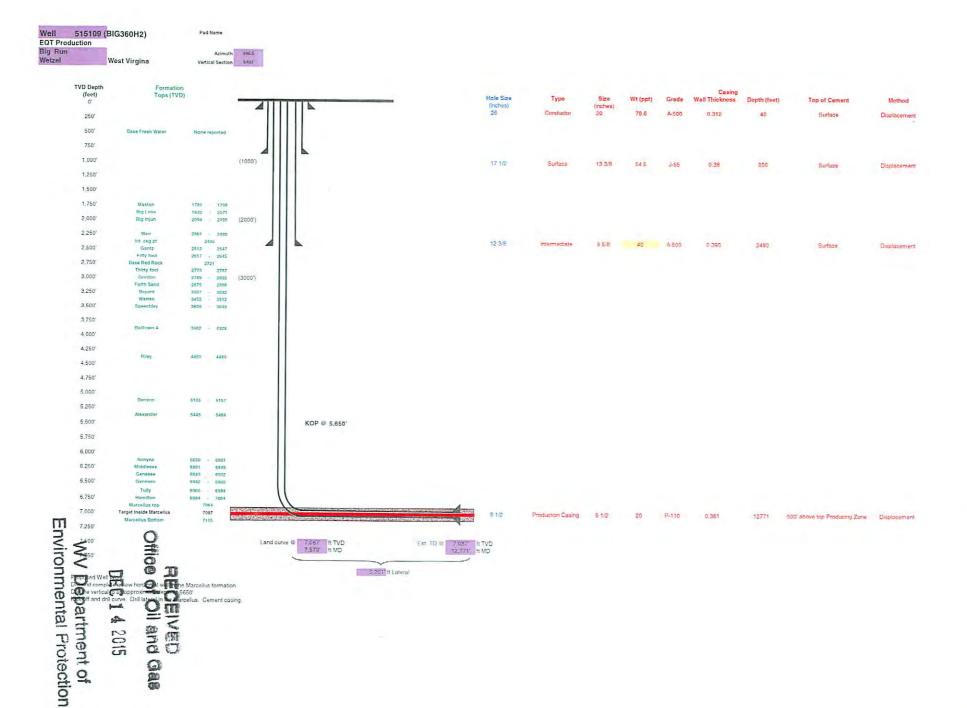
	Well Pad Name: BIG360
19) Describe proposed well work, including the drilling and plugging back of any pi	ilot hole:
Drill and complete a new horizontal well in the Marcellus formation.	
Drill the vertical to an approximate depth of 5650'.	-
Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.	-
20) Describe fracturing/stimulating methods in detail, including anticipated max pre	essure and max rate:
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previo	
freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemica gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "	
anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipat	ted treating rates are expected to average
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 bar vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.	rrels 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):	16.3
22) Area to be disturbed for well pad only, less access road (acres):	5.02
23) Describe centralizer placement for each casing string.	0.02
• Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.	
 Intermediate: Bow spring centralizers— One cent at the shoe and one spaced eve Production: One spaced every joint from production casing shoe to KOP 	ery 500'.
	e (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 cement slurr	ny to a thief zone
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature	formations to speed the setting of cement
slurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole d	drilling fluid or cement slurry (not filtrate)
to a thief zone.	DAH
Production:	DAH 12-10-15
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	0 (fluid loss)
.2% SEC-10 (Fluid loss)2% SuperFL-350 (fluid loss) Reduces amount of water lost to fo	ormation.
60 % Calcuim Carbonate. Acid solubility.	
25) Proposed borehole conditioning procedures. Surface: Circulate hole clean (Approxi	1 0 3 0 3 3 1 Mov
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish,	
minutes. A constant rate of higher than expected cuttings volume likely indicates washouts	s tnat will not clean up.
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full	
surface. When cuttings returning to surface diminish, continue to circulate an additional 5 m	ninutes. If foam drilling, to enhance
nole cleaning use a soap sweep or increase injection rate & foam concentration.	Office of
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gaug	
	volume of cuttings coming across
efform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check v	column of cultures continue across
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check verifies the shakers every 15 minutes.	volume of cuttings coming across WV Departme Environmental Pro

WW - 6B (10/14)

*Note: Attach additional sheets as needed.

API NO. 47 - 103 - 03031
OPERATOR WELL NO. 515109

Well EQT Proc Big Run Welzel	w	G360H2) est Virgina	Pad Name Azimuth Vertical Section												
	TVD Depth (feet)	Formation Tops (TV	D)				Hole Size	4.33				Casing			
	250			4			(inches)	Type	Size (inches)	Wt (ppf) 78.6	Grade	Wall Thickness	Depth (feet)		Method
	500	Base Fresh Water	None reported	11				00,400		70.0	A-500	0.312	40	Surface	Displacement
	750														
	1,000			(1000)	-		17.12	W-4	Organ-						
	1,250						10.16	Surface	13 3/8	54.5	J-55	0.38	856	Surface	Displacement
	1,500														
	1.750	Maxton Big Line	1781 - 1768. 1932 - 2071												
	2.000	leg Injun		(2000')	117										
	2,250	list sag pf	2361 - 2430 2460				line.	100,000							
	2.500'	Gantz Filly foot	2512 - 2547 2617 - 2645	-	5		18 0.9	intermediate	9.5/11	40	A-500	0.395	2480	Surface	Displacement
	3.000	Dake Red Rock Thirty four Gordon	2721 2773 2767 2789 2835	****	1										
	3.250	Forth Sand Bayant	2875 2888 3007 - 3032	3000')	T.										
	3,500	Warren Speechley	3455 - 3512 3600 - 3643												
	3,750				M.										
	4,000	Baltiswn A	1967 : 4328												
	4.250	Filter	4150 4489												
	4.500	Page 1	4100 8400	1											
	4,750			1											
	5,000	Denson	5106 - 5157	- 1											
	5,250	Alexander	5446 - 5454			D									
	5,500				KOP @ 5,650'	U	12-10-15								
	6,000			- 1		1	7-10-15								
	6.250	Surryea Migdlesex	6650 5801 6601 - 6849				10 11								
	6,500	Genesas	6949 6960												
	6.750	Tutty Hamilton	6960 - 6984 6984 7064	1	(
Ш	7,000	Marcellus top Target Inside Marcellus Marcellus Bottom	7064	ere en en			81/2	Production Casing	-5120	24.	400				
3 .	250	Marcalus Bottom	7115	***********	PAC AND DESCRIPTION OF THE PACE OF THE PAC	MAINTENANCE CONTRACTOR	NAME OF THE PERSON OF THE PERS	Production Casing	5 1/2	20	P-110	0.361	12771	500° above top Producing Zone	Displacement
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ž,	7.750	の間			E EDSO II MU		12.777 H MD								
76	Cosed Well Wo	20			E E	5 2 12 (f Lateral									
3	Dur the vertical or Cell off and drill or	a new nortional we have approximate departed 5	e Marcellus formation 650'												
Di.	7 .	0 5	ceaus. Cemeni casing												
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Environmental Protection	Ĭ '	of Charles and Gas													
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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.

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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.

Office of Oil and Gas

Office of Oil and Gas

WV Department of
Environmental Protection

WV Department of
Environmental Protection

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.

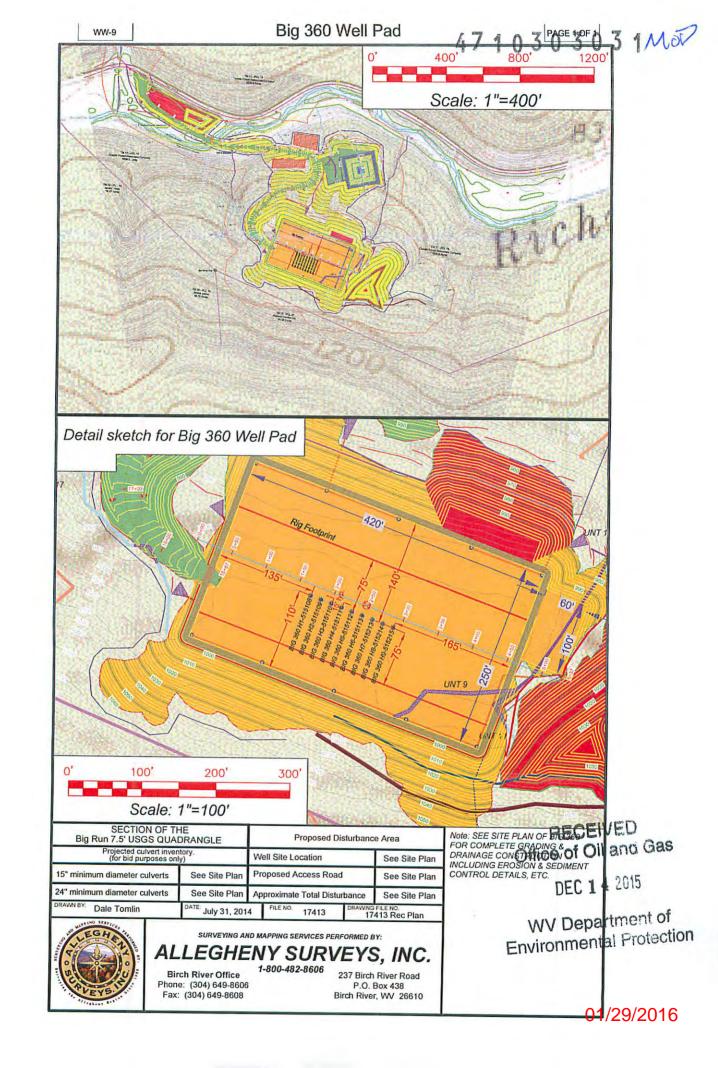
IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

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Office of Oil and Gas

DEC 14 2015





Site Specific Safety Plan

EQT BIG 360 Pad

<u>Jacksonburg</u>

Wetzel County, WV

For Wells:

515110

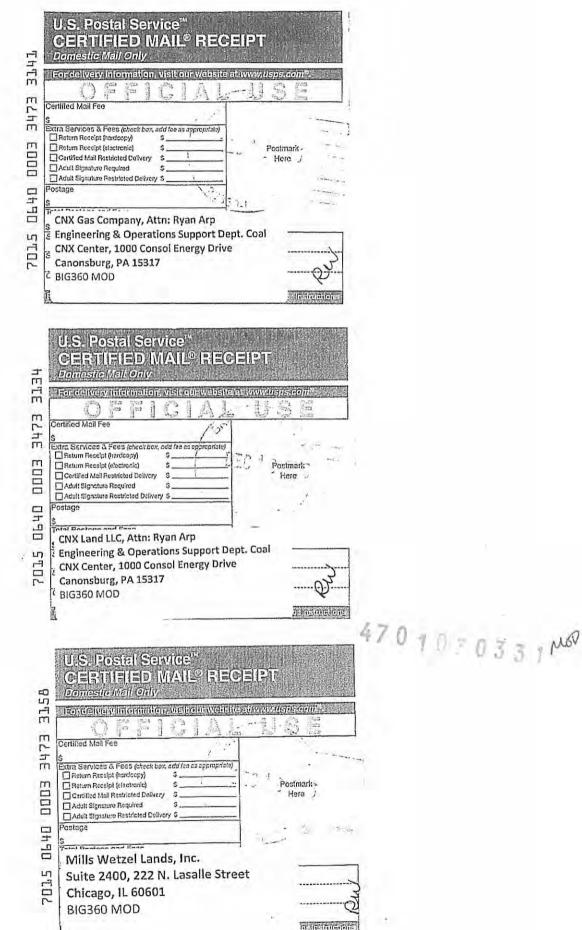
515108

515109

515110

Date Prepared: August 7, 2014 EQT Production Fitle 12-8-15 Date	Date Reviewed: December 3, 2015 WV Oil and Gas Inspector Oil + Gas Inspector Title RECEIVED Office of Oil and Gas
Date	Date DEC : 4 2015

1	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3.	A. Signature //
Print your name and address on the reverse	X Agent Addressee
so that we can return the card to you. Attach this card to the back of the mailpiece.	B. Received by (Printed Name) C. Date of Delivery
or on the front if space permits.	Natale Caronell
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Canonsburg, PA 15317	
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Complete items 1, 2, and 3.	A. Signature
Print your name and address on the reverse so that we can return the card to you.	X Addressee
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Mills Wetzel Lands, Inc.	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
Suite 2400, 222 N. Lasalle Street	
Chicago, IL 60601	
BIG360 MOD	
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WW-6A1 (5/13)

Operator's Well No.

515109

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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease 988530			Min 1/8 pd	
	Mills Wetzel Lands, Inc.	EQT Production Company		O&G 126A/288
<u>4-22-27</u>			N/A	
	Dallison Lumber Inc.	EQT Production Company	Subsurface Ease	ement
			(see attached)	O&G 115/903
l.1187216222			Min 1/8 pd	
	Georgia H. Jones, et al.	H.S. Grayson		DB 53/169
	H.S. Grayson (50% assigned)	South Penn Oil Company		DB 49/154
	South Penn Oil Company	South Penn Natural Gas Company		O&G 33A/455
	South Penn Natural Gas Company	South Penn Oil Company		DB 215/478
	South Penn Oil Company	Pennzoil Company		Unrecorded Merger - Se attached
	Pennzoil Company	Pennzoil United Inc.		DB 246/491
	Pennzoil United Inc.	Pennzoil Company		Unrecorded Name Char See attached
	Pennzoil Company	Pennzoil Products Company		DB 319/397
	Pennzoil Products Company	Pennzoil Exploration and Production	Company	DB 363/384
	Pennzoil Exploration and Production Company	Pennzenergy Exploration and Pr		CB 12/178
	Pennzenergy Exploration and Production Company	y LI Devon Energy Production Company	L.P.	CB 12/278
	Devon Energy Production Company L.P.	East Resources, Inc.		CB 370/580
	East Resources, Inc.	HG Energy, LLC		LB 118A/253
	HG Energy, LLC	American Energy - Marcellus, LLC		DB 153/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC		MB 114/619
	Ascent Resources - Marcellus, LLC	EQT Production Company		O&G 166A/663
	Georgia H. Jones, et al.	H.S. Grayson		DB 53/169
	H.S. Grayson (25% assigned)	Woodland Oil Company		DB 53/257
	Woodland Oil Company	South Penn Oil Company	=	DB 52/258= n
	South Penn Oil Company	Pennzoil Company	Office	The Glad Milyer-So of Gall and Ga
	Pennzoil Company	Pennzoil United Inc.		DB 246/491
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Pennzenergy Exploration and Production Company LI Devon Energy Production Company L.P.

CB 12/278

Devon Energy Production Company L.P.	East Resources, Inc.	CB 370/580
East Resources, Inc.	HG Energy, LLC	LB 118A/253
HG Energy, LLC	American Energy - Marcellus, LLC	DB 153/238
American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	MB 114/619
Ascent Resources - Marcellus, LLC	EQT Production Company	O&G 166A/663
Georgia H. Jones, et al.	H.S. Grayson	DB 53/169
H.S. Grayson (25% assigned)	W. H. Hearne	DB 48/86 & 49/185
W. H. Hearne	Pennzoil Products Company	LB 71A/584
Pennzoil Products Company	Pennzoil Exploration and Production Company	DB 363/384
Pennzoil Exploration and Production Company	Pennzenergy Exploration and Production Company LLC	CB 12/178
Pennzenergy Exploration and Production Company LI Devon Energy Production Company L.P.		CB 12/278
Devon Energy Production Company L.P.	East Resources, Inc.	CB 370/580
East Resources, Inc.	HG Energy, LLC	LB 118A/253
HG Energy, LLC	American Energy - Marcellus, LLC	DB 153/238
American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	MB 114/619
Ascent Resources - Marcellus, LLC	EQT Production Company	O&G 166A/663

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: Permitting Supervisor

Page 2 of 2

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Office of Oil and Gas

DEC 1 4 2015



4710303031ma

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

Todd Klaner Manager, Permitting tklaner@eqt.com

December 8, 2015

WV DEP Reviewer

RE: EQT Production Company

PAD ID – BIG360 Well# - 515109 Wetzel 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 tract 22/27, 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

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47 1 0 3 0 3 0 3 1 Mer Instruent No 192162 Date Recorded 12/07/2

Carol & Hausht
METZEL County 11:22:00 6M
Instrument No 192162
Date Recorded 12/07/2015
Document Type R/N
Pages Recorded 3
Book-Page 115-903
Recording Eng. 95, 00

MEMORANDUM OF Recording Fee \$5.00
SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMEN For Tax \$62.00
Additional \$25,00

County Clerk please also index under the following: Shiben Estates Inc.

1. NAME AND ADDRESS OF GRANTOR:

Dallison Lumber Inc. P.O. Box 159 Jacksonburg, WV 26377

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 ("Agreement") dated the 22nd day of October, 2015, was entered into for good and valuable consideration by and between Dallison Lumber Inc. ("Grantor", whether one or more) and EQT Production Company ("Grantee"). Upon completion of any wellbore within the subsurface area underlying the Property (as defined in Section 4), this subsurface easement in the area of the wellbore and the one hundred (100') feet on each side of the wellbore that parallels it shall become an exclusive Right-of-Way and Easement in that area. The final wellbore locations are as described in a final, as-built map(s) to be filed as a part of an affidavit in the aforesaid Clerk's Office following the completion of the planned well(s) located on Grantee's BIG360 well pad. If an as-built map is not available for a wellbore within the subsurface area underlying the Property, any third-party with the right to operate within such area may contact Grantee's land department for a copy of such as-built map. Grantee shall provide notice of additional wellbores located within the subsurface area underlying the Property by filing an amendment, affidavit or other appropriate document.
- 4. <u>DESCRIPTION OF PREMISES</u>: That certain tract or parcel of land containing 31.35 acres, more or less, located in Grant District in Wetzel County, West Virginia, being the same lands conveyed to Grantor by Deed dated the 24th day of January, 1989, of record in the Office of the Clerk of the County Commission of Wetzel County, West Virginia in Deed Book 330, at Page 577 ("the Property").
- TERM: The Agreement 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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IN WITNESS WHEREOF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR:

Dallison Lumber Inc.

GRANTEE:

EQT Production Company

Its: President

By: John W. Damato Its: Attorney-In-Fact

STATE OF WEST VIRGINIA

COUNTY OF WETZEL

I. BRYSON J. KARP , a Notary Public, in and for said State and County, do hereby certify that Ed Dallison, personally known to be the same persons whose name is subscribed to the foregoing instrument and the President of Dallison Lumber Inc., 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.

Given under my hand this 2015.

My Commission expires: JAJJ. 1,2021

OFFICIAL SEAL COMMISSIONER FOR WEST VIRGINIA Bryson J. Karp Weston, WV My Commission Expires January 1, 2021

STATE OF WEST VIRGINIA

COUNTY OF HARRISON

_, 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 act and deed for uses and purposes therein set forth on behalf of said company.

Given under my hand this and day of OCCOON

My Commission expires: May 10, 2024

OFFICIAL SEAL ary Public, State of West Yang KATELYN L. LISTON n estan expired May 13, 201

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WV Department of **Environmental Protection**

This instrument was prepared by EQT Production Company, 625 Liberty Avenue, Pittsburgh, PA 15222.

Declaration of Consideration of Value

The Grantee hereby declares that the consideration being paid to Grantor for the transfer of real estate is S

Given under my hand this 4th day of Dr. (1801) (1. 2015)

EQT PRODUCTION COMPANY John W. Damato

Attorney-In-Fact

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WV Department of **Environmental Protection**

01/29/2016

120 3-1-63.18_

ARTICLES OF MERGER

OF

ZAPATA PETROLEUM CORPORATION

AND

STETCO PETROLEUM CORPORATION

INTO

SOUTH PENN OIL COMPANY

In compliance with the requirements of Afficie IX of the Act of the General Assembly of the Commonwealth of Pennsylvania, known as the Buildiess Corporation Law approved May 5, 1913, P. L. 361, and anientments thereto, providing for the merger and consolidation of Corporations, SOUTH PENN OIL COMPANY, a Pennsylvania corporation, ZAPATA PETROLEUM CORPORATION, a Delawere corporation, and STETCO PETROLEUM CORPORATION, a Delawere corporation, iereby certify inder their respective corporate scalar.

1. That it is proposed that Zapain Petroleum Corporation and Stelico Petroleum Corporation be merged into South Penn Oil Company in accordance with the revisions of a joint plan of merger collided "Joint Plan and Agreement of Merger" and dated May 7, 1963, a copy of which is attached bereto and made a part hereof.

2. That the surviving ecoporation is South Penn Oil Company, that the name of the surviving ecoporation is South Penn Oil Company, that the name of the surviving ecoporation be changed to Pennsell Company and that the location of its registered office is Drake Bulliding, 100 Duncomb Street, Oil City, Pennsylvania.

- 3. That a special meeting of shareholders of South Penn Oil Company to take action upon the proposed merger was held in 10.00 octock A.M. on July 2, 1903, at the registered office off sald corporation. Drake fullilling, 106 Duncomb Street, Oil City, Pennsylvania; that written notice, stating the place, day, hour and purposes of the meeting, together with a copy of subsection. A of section 503 and of subsections A, B, C and D of section 515 (rights of dissenting shareholders) of the acidy Pennsylvania Business Corporation Law, was mailed on June 11, 1903, to all shareholders of the order of the or
- 4. That at the time of the special incetting of shareholders of South Penn Oll Company on July 2, 1963, the authorized itimber of all shares of the capital stock of said corporation was 1,715,000 shares of common stock of the par value of \$12.50 each, of which 1,529,750 shares were outstanding and vere cultiled to be voiced at the meeting and 112,850 alteres were tight in the treating and 112,850 alteres were tight in the treating and 112,850 alteres were tight in the treating of tall corporation and were not within to be voted at the miering and that it said meeting said plan plan of merger was adopted and approved by the amendative vote of the holders of 11.6 / Adapters of common stock, there having been voted against the same 24,680. shires of common stock.
- S. That the Joint Plan and Agreement of Merger Was duly milliorized, adopted and approved by Zapath Petroleum Corporation and Stetco Petroleum Corporation in accordance with the laws of the State of Delaware, the jurisdiction in which they were formed.
- 6. That, as provided in Section 5 of said joint plan of thereer, the Articles of Incorporation of South Penn Oll Company, as herefolore amended, shall be amended and restated in their collecty by revising some to read in full as set forth in Exhibit A to said joint plan of merger.

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Henceforth the "Articles" as defined in Article For the Business Corporation Law of the Commonirealth of Pennsylvania shall not include any prior documents.

7. That the following are the names and addresses of the sixteen persons who shall consiliute the first Board of Directors of the Surviving Corporation:

Name	Address
D. D. Boynini	P. O. Box 2590 Tulia, Oklabonia
Edward P. Böyle	205 Maple Avenue Oli City, Pennsylvania
George L. Coleman	1137 (Vest Jackson Houlevard Chiengo, Illinois
James G. S. Gammell	"Inverviek" Ellersly Road Rolliforgh 12, Scotland
R. B. Glipatrick, Jr.	Mellou National Bank and Triest Company Pitth Avento Pitishingh 19, Pennsylvania
RAV. Grunert	Drāke Billilling 100 Dintebih Street Oll City, Pennsylvania
L. F. Johnsoit	240514 V. 10th Los Angeles, California
J. High Liedtke	Room 410, Four Galeway Center Pilisburgh, Pennsylvania
Willam C. Liedtke, Jr.	Plest Katlonal Bank Building Midland, Texas
T. I., McDowell	McDovell, McDowell, Wick & Daly 50 Boylaton Street Bradford, Pennsylvania
John n. Allichen	12 South Rendall Avenue
Thomas O'D, Murray	Room 410, Pour Gateway Center Phtiburgh, Pennsylvania
A. J. Saxe	Drake Bulldhig 20 Parkway Lane Uradford, Pennsylvania
Charles I., Suhr	1. O. Box (D) Oll City, Pennsylvania
J. Z. Von Thin	50 Darliour Street Braillord, Pennsylvania
W. S. Zehrung	11s Wylls. Oll City, Pennsylvania

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IN TESTIMONY WITHREOF, South Penn Oil Company, Zapain Pelroleum Corporation and Steteo Petroleum Corporation have caused these Articles of Merger to be executed under the seal of each corporation and to be signed by two duly authorized officers of each corporation, this 2nd day of July, 1963.

SOUTH PENH OIL COMPANY

Aitest:

J. H. Youke

Secretary

Altests

W. M. HRUHLEY, JR.

Secretary

Kitest:

MARINE MITCHELL

Secretary

By J. Huan Lientee

(Conpensale Sent)

ZAPATA PETROLEUM CORPORATION

By W. A. Hoven

President

(Corpounte Sent)

STETCO PETROLEUM CORPORATION

By WHALAN C. LIROTKE, JR. President

(Confirmate Sent)

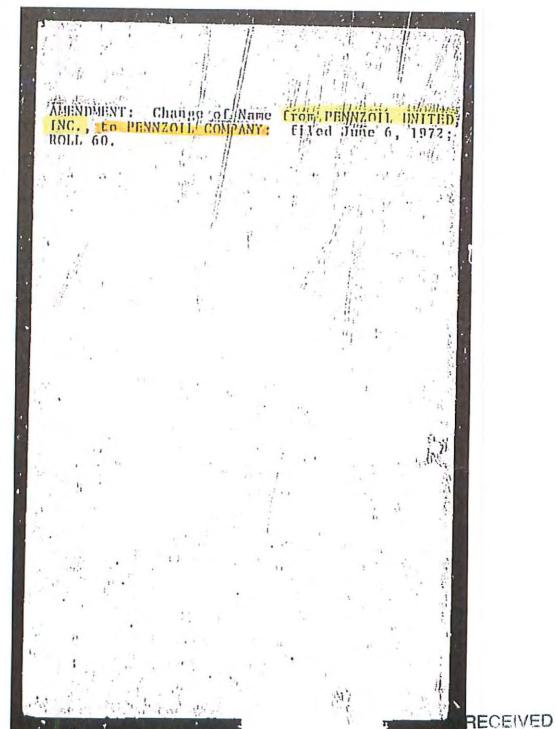
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CARD TO BE REPLACED ONLY BY FILING CLERK
PENNZOIL UNITED; INC.
Toreign Corporation Delaware
Albein . 900 Southwest Tower
Houston, Texas
April 17, 1968
ROLL 10
AMENDIM PARTY CONTROL OF THE PROPERTY OF THE P
AMENDMENT: Dertificate of Incorporation;
AMENIMENT: Certificate of incorporation; file
Alleman - Market and Alleman -
AMENIMENT: Certificate of Incorporation; filed
MERGER) Elk Refining Company, alw. Va. corp., merged with and into Pennzoll United linc., the survivor, filed December 31, 1969,
merged with and into Pennzoil United Inc.
ROLL 30.
MERGER: Wolf's Head Oil Refining Company Co.; (See above) merged With and into Vanuary 20, 1970; Roll 31.
Co: (See above) margas Till (See above)
Pennzoll United; Inc., the survivor; filed
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