

### 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 BRIDGEPORT, WV 26330

Re: Permit Modification Approval for API Number 10303032, Well #: 515110

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.

Sincerery,

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.

4701020332 New

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

Sincerely,

Vicki Roark Permitting Supervisor-WV

Enc.

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WW - 6B (4/15)

API NO.	47		103	3 <del>-</del>	03032
OPERATO	RWE	LL NO		515110	
Wall Par	d Mar	no.		BIC360	

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

1) Well Operator: EQT Pro	duction Company		306686	103	4	254		
			Operator ID	County	District	Quadrangle		
2) Operator's Well Number: _		515110		Well Pad Nar	ne	BIG360		
3) Farm Name/Surface Owner	r:Coas	tal Forest Re	sources	Public Road A	Access:	Rt 76		
4) Elevation, current ground:_	1,008.0	Eleva	ition, proposed p	oost-construction	n:998.	0		
5) Well Type: (a) Gas	• Oil	Ur	nderground Stor	age				
Other								
(b) If Gas:	Shallow	T	Deep					
	Horizontal	4			D			
6) Existing Pad? Yes or No:	No				Um	10-15		
7) Proposed Target Formation  Target formation is Marcellus	(s), Depth(s), Antio	7 with the antici	nesses and Asse pated thickness to b Marcellus: 706	e 51 feet and anti-	e(s): cipated target pres	sure of 2620 PSI		
8) Proposed Total Vertical Dep	th:			7087				
9) Formation at Total Vertical D	Depth:			Marcellus				
10) Proposed Total Measured	Depth:	13475						
<ol> <li>Proposed Horizontal Leg L</li> </ol>	ength:	5550						
12) Approximate Fresh Water :			No shows for	und in completio	n reports within	4000'		
<ol><li>Method to Determine Fresh</li></ol>				By offset w		1000		
<ol> <li>Approximate Saltwater Dep</li> </ol>				1961, , ,				
<ol> <li>Approximate Coal Seam De</li> </ol>	epths:		26	69, 429, 650, 752	2			
<ol><li>16) Approximate Depth to Poss</li></ol>	sible Void (coal mir	ne, karst, othe	er):		None rep	orted		
17)Does proposed well location		ns directly over	erlying or	-	110110110	-		
adjacent to an active mine?			Ye	s	No			
(a) If Yes, provide Mine Info								
	Depth:							
	Seam:							
	Owner:							

470103033 No Page 1 of 3

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WW	-	6B	,
(4/15	5)		

API NO.	47	-	103	-	03032
OPERATOR WELL NO.					515110
Well Pad Name:					BIG360

### CASING AND TUBING PROGRAM

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1	×	1
	v	

TYPE	Size	New	Grade	Weight per ft.	<b>FOOTAGE:</b>	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	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	13,475	13,475	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							

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated  Max. Internal  Pressure (psi)	Cement Type	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)

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4701070332 NV

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01/29/2016

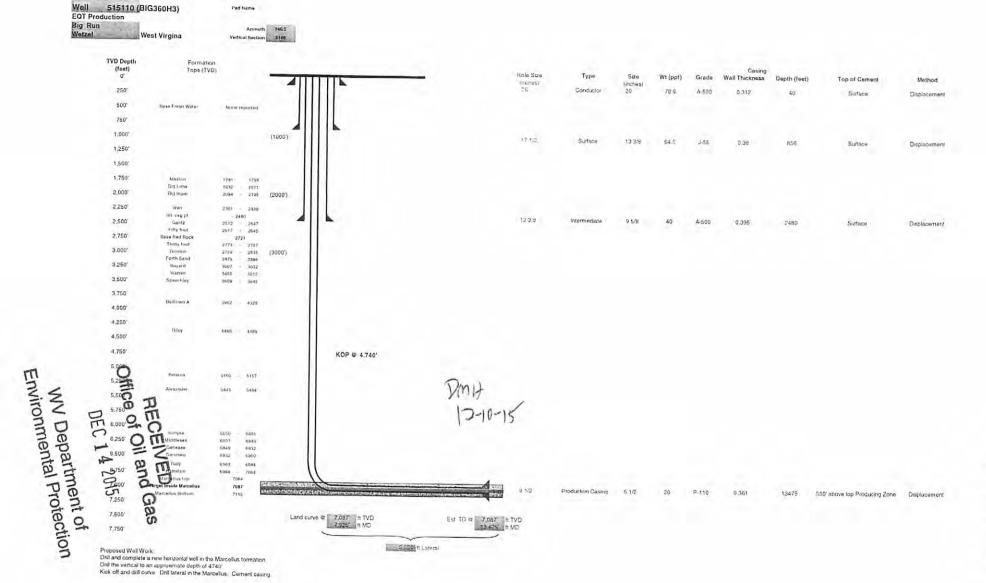
(10/14)	OPERATOR WELL NO. Well Pad Name:	515110 BIG360
10) Describe proceed well work including the drilling and plugging book	Assert Assert	Broson
19) Describe proposed well work, including the drilling and plugging back of	or any pilot noie.	
Drill and complete a new horizontal well in the Marcellus formation.		
Drill the vertical to an approximate depth of 4740'.		
Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.  20) Describe fracturing/stimulating methods in detail, including anticipated	max pressure and max rate:	
Hydraulic fracturing is completed in accordance with state regulations using water recycled fr freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the induanticipated internal casing pressure is expected to average approximately 8500 psi, maximum approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 20 vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per sta	of chemicals (including 15% Hydrochloric acid, stry as a "slickwater" completion. Maximum n anticipated treating rates are expected to average 00,000 barrels of water per stage. Sand sizes	
vary norm too mean to zer to mean. Average approximately 200,000 pounts of said per sta	ge.	
21) Total area to be disturbed, including roads, stockpile area, pits, etc, (and	cres): 16.3	
22) Area to be disturbed for well pad only, less access road (acres):	5.02	
<ul> <li>23) Describe centralizer placement for each casing string.</li> <li>Surface: Bow spring centralizers – One at the shoe and one spaced ever</li> <li>Intermediate: Bow spring centralizers – One cent at the shoe and one space</li> <li>Production: One spaced every joint from production casing shoe to KOP</li> </ul>	y 500'. aced every 500'.	
24) Describe all cement additives associated with each cement type.  Used to speed the setting of cement slurries.	Surface (Type 1 Cement): 0-3% Calcium Chloride	
0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of the cern Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low ten	nent slurry to a thief zone.	
slurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of	f whole drilling fluid or cement slurry (not filtrate)	
to a thief zone.		
Production:	DAH 1210-15	
Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix)15% Sup	perFL-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% Su	per FL-200 (fluid loss)	
.2% SEC-10 (Fluid loss)2% SuperFL-350 (fluid loss) Reduces amount of water	lost to formation.	
60 % Calcuim Carbonate. Acid solubility.		
25) Proposed borehole conditioning procedures. Surface: Circulate hole clean	4701030332M67	
	, and the second	
one full joint until cuttings diminish at surface. When cuttings returning to surface d		
minutes. A constant rate of higher than expected cuttings volume likely indicates v	washouts that will not clean up.	<del></del> -
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating	g one full joint until cuttings diminish at	_
surface. When cuttings returning to surface diminish, continue to circulate an addit	ional 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. Calcula	ate a gauge holes bottoms up volume IFD	
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean.	Check volume of cuttings commission Gas	
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. the shakers every 15 minutes.	Office of Cal	-
	DEC 1 4 2015	
*Note: Attach additional sheets as needed	i mont Of	_

\*Note: Attach additional sheets as needed.

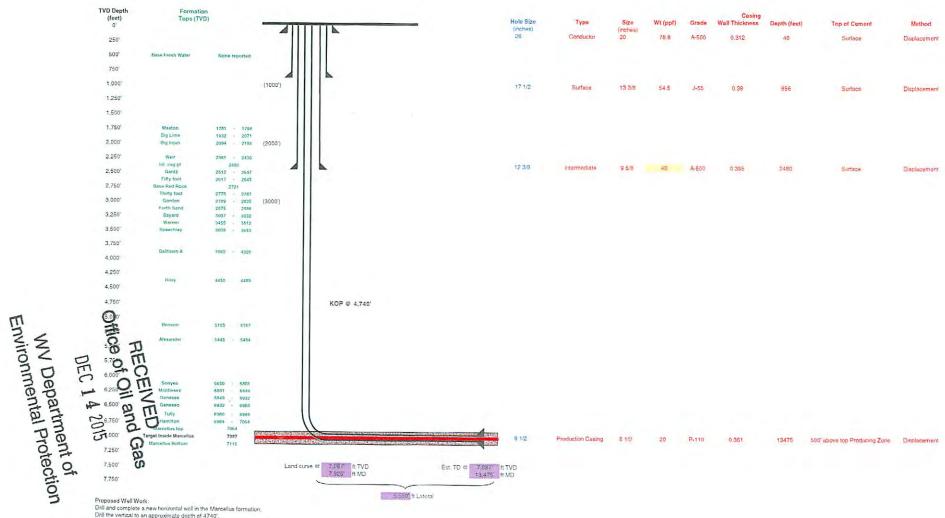
WW - 6B

WV Department of Environmental Protection 01/29/2016 Page 3 of 3

APINO. 47 - 103 -



Well 515110 (BIG360H3) Pad Name EQT Production Big Run Azimuth 346,5 Wetzel West Virgina Vertical Section 5149



Drill and complete a new horizontal well in the Marcellus formation. Onll the vertical to an approximate depth of 4740'. Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.



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.

Sincerela

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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Office of Oil and Gas 601 57<sup>th</sup> 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.

Office of Oil and Gas

DEC 1 4 2015

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#### 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.

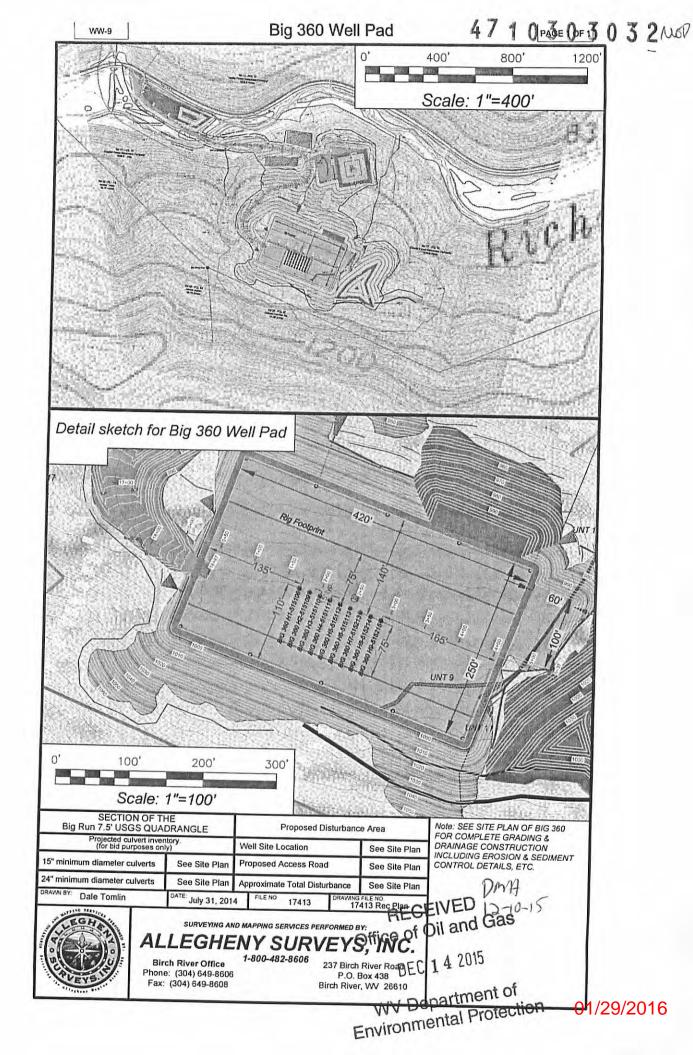
IN THE NAME OF THE STATE OF WEST VIRGINIA

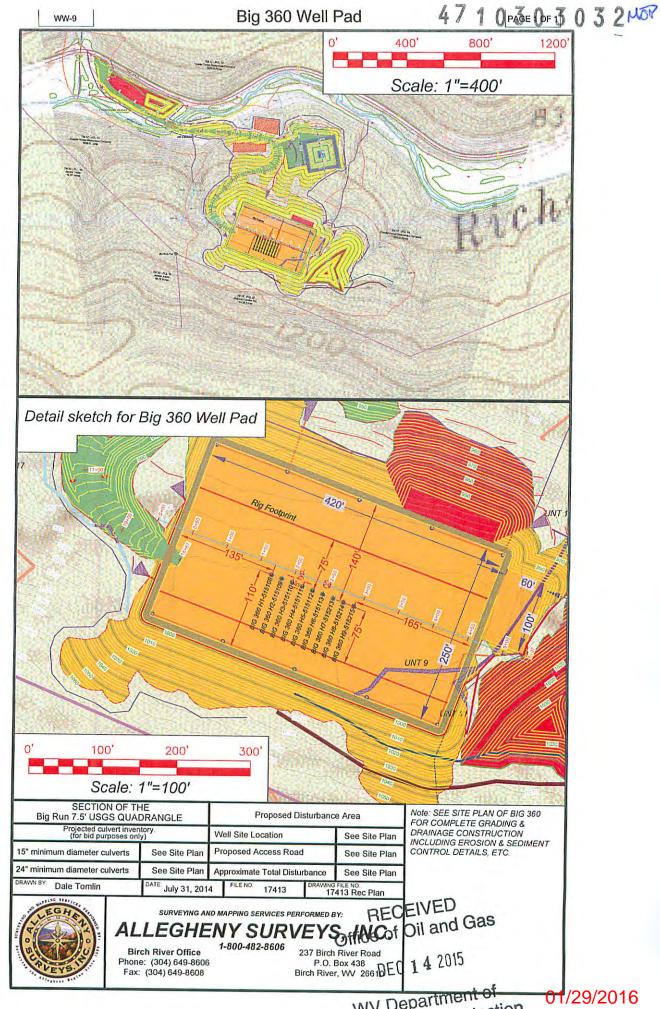
OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas

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Office of Oil and Gas

DEC 1 4 2015





WV Department of 01/29/2016
Environmental Protection



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# Site Specific Safety Plan

# EQT BIG 360 Pad

<u>Jacksonburg</u>

Wetzel County, WV

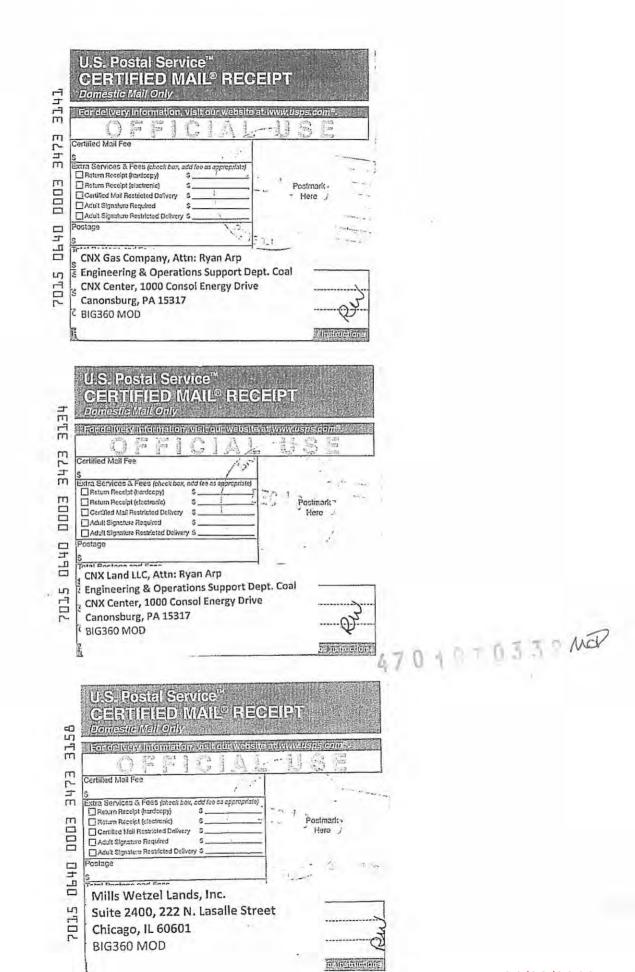
Ene Well-

_515108	515109	515110	515111	_515112	
Date Prepared:  EQT Production  Title  12-8	/	014 		WV Oil and Gas	Inspeck

WV Department of Environmental Protection 01/29/2016

DEC 1 4 2015

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature //  X Addressee  B. Received by (Printed Name) C. Date of Delivery
1. Article Addressed to: CNX Gas Company, Attn: Ryan Arp Engineering & Operations Support Dept. Coal CNX Center, 1000 Consol Energy Drive Canonsburg, PA 15317 IG360 MOD	D. Is delivery address different from item 1?  Yes If YES, enter delivery address below:  No
9590 9403 0752 5196 3274 15	3. Service Type
Article Number (Transfer from service Tabel)	Collect on Delivery Restricted Delivery     Sured Mail     Sured Mail     Sured Mail     Restricted Delivery     Restricted Delivery     Restricted Delivery
Form 3811, April 2015 PSN 7530-02-000-9053	ver \$500)  Domestic Return Receipt
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature  X   Addressee  B. Heceived by (Printed Name)  C. Date of Delivery    Addressee   C. Date of Delivery
Article Addressed to:     CNX Land LLC, Attn: Ryan Arp     Engineering & Operations Support Dept. Coal     NX Center, 1000 Consol Energy Drive     anonsburg, PA 15317	ID. Is delivery address different from item 125 □ Yes If YES, enter delivery address below: □ No
9590 ,9403 0752 5196 3274 22  Article Number (Transfer from service label)	3. Service Type  Adult Signature  Adult Signature Restricted Delivery  Cortified Mail®  Cortified Mail®  Cortified Mail Restricted Delivery  Collect on Delivery  Collect on Delivery Restricted Delivery  Collect on Delivery Restricted Delivery  Signature Confirmation  Signature Confirmation
1015 EL1E EDDD 3473 3134	ured Mail ured Mail   Signature Confirmation ured Mail Restricted Delivery er \$500)
Form 3811, April 2015 PSN 7530-02-000-9053	Domestic Return Receipt
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature  X
Mills Wetzel Lands, Inc. Suite 2400, 222 N. Lasalle Street Chicago, IL 60601 BIG360 MOD	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
9590 9403 0673 5196 9830 97	3. Service Type  Adult Signature  Adult Signature  Adult Signature  Codult Mail Serviced Delivery  Codult on Delivery  Codult on Delivery  Codult on Delivery  Collect on Delivery  Codult Signature  Codult Mail Express®  Codult Mail Restricted  Codult Mail Express®  Codult Mail Express  Codult Mail Express®  Codult Mail Express®  Codult Mail Express  Codu
2 Articla Number (Transfer from service label) 7015 0640 0003 3473 3158	issured Mail issured Mail Restricted Delivery iver \$500)  Signature Confirmation Restricted Delivery iver \$500)



WW-6A1 (5/13)

Operator's Well No.

515110

### 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 o	r			
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>Lease 988530</u>			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.	Subsurface Ease	ement	
			(see attached) N/A	O&G 115/903
4-23-01	Billy Dewayne Arnolds, Jr.	<b>EQT Production Company</b>	Subsurface Ease	ement
			(see attached)	O&G 115/906
1.1187216222			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 Compa	ny	O&G 33A/455
	South Penn Natural Gas Company	South Penn Oil Company		DB 215/478
	South Penn Oil Company	Pennzoil Company		Unrecorded Merger - See attached
	Pennzoil Company	Pennzoil United Inc.		DB 246/491
	Pennzoil United Inc.	Pennzoil Company		Unrecorded Name Chang See attached
	Pennzoil Company	Pennzoil Products Company		DB 319/397
	Pennzoil Products Company	Pennzoil Exploration and Produc	tion Company	DB 363/384
	Pennzoil Exploration and Production Company	Pennzenergy Exploration and Pro	ı	CB 12/178
	Pennzenergy Exploration and Production Compar	ny Li Devon Energy Production Compa	any 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, LL	С	DB 153/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LI	LC	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 53/259
	South Penn Oil Company	Pennzoil Company	RECEIVED	Unrecorded Merger - See attached
	Pennzoil Company	Pennzoil United Inc.	ce of Oil and (	<b>3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</b>
	Pennzoil United Inc.	Pennzoil Company		Unrecorded Name Change See attached
	Pennzoil Company	Pennzoil Products Company	DEC 1 4 2015	DB 319/397

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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	nnzenergy Exploration and Production Company LI Devon Energy Production Company L.P.	
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	L  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:

Its: Permitting Supervisor

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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# - 515110 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 tracts 22/27, 23/1, 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** 

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Office of Oil and Gas

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WV Department of 01/29/2016 Environmental Protection 47 1 0 3 0 3 0 3 2 Market. County 11:22:00 6H

Actival County 11:22:00 6 Instrument No 192162 Date Recorded 12/07/2015 Document Type R/U Pages Recorded 3 Book-Page 115-903

MEMORANDUM OF Retording Fee \$5.00
SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMEN Firster Tax \$23.00
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 REFERENCE: A 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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DEC 1 4 2015

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** 

By: Ed Dallison Its: President

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

STATE OF WEST VIRGINIA

COUNTY OF WETZEL

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

My Commission expires: JAN. 1,2021.

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

Notary Public

STATE OF WEST VIRGINIA

COUNTY OF HARRISON

I, CORCUP CLOTH, 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 october, 2015.

My Commission expires: May 16, 2014

OFFICIAL SEAL

Notary Public, State of Word Virgora

KATELYN L. USTON

1304 Sereno Divise
Follomoni, WV 20554

Ry commession explies May 10, 2024

Satetyl S. Astr.

This instrument was prepared by EQT Production Company, 625 Liberty Avenue, Pittsburgh, PA 15323.

Office of Oil and Gas

DEC 1 4 2015

### Declaration of Consideration of Value

Given under my hand this 4h day of Dr. (1911) (1915)

EQT PRODUCTION COMPANY

John W. Damato Attorney-In-Fact

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Carol S Hausht
METZEL County 11:24:13 AM
Instrument No 192164
Date Recorded 12/07/2015
Document Type R/N
Pages Recorded 3
Book-Page 115-906
ERECORDING Fee \$5.00

Additional \$26.00

## MEMORANDUM OF Book-Page 115-900 SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEME REprodum Fee \$5.00 Iransfer Tax \$39.00

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

#### 1. NAME AND ADDRESS OF GRANTOR:

Billy Dewayne Amolds Jr. 312 Richwood Run Rd. 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 23rd day of September, 2015, was entered into for good and valuable consideration by and between Billy Dewayne Arnolds Jr. ("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 following well(s) located on Grantee's BIG 360 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 16.5 acres, more or less, located in Grant District in Wetzel County, West Virginia, being the same lands conveyed to Grantor by Deed dated the 11th day of December, 2002, of record in the Office of the Clerk of the County Commission of Wetzel County, West Virginia in Deed Book 384, at Page 627 ("the Property").
- 5. <u>TERM</u>: 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)

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

GRANTOR:

GRANTEE:

**EQT Production Company** 

Billy Dewayne Arnolds Jr.

By: John W. Damato Its: Attorney in fact

STATE OF WEST VIRGINIA

COUNTY OF WETZEL

I. Toryson J MRP, a Notary Public, in and for said State and County, do hereby certify that Billy Dewayne Arnolds Jr., 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 23 day of SEPTEMBER, 2015.

My Commission expires: JAH 12021

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

Notary Publi

STATE OF WEST VIRGINIA:

COUNTY OF HARRISON:

I, 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 Hth day of Sestentian, 2015.

My Commission expires: May 16, 2024

OFFICIAL SEAL
Notary Public, State of West Virginis
KATELYN L LISTON
1306 Serene Drive
Fairment, WV 26554
By Commission Express May 18, 2024

Kately L. Lister

This instrument was prepared by EQT Production Company, 625 Liberty Avenue, Pittsburgh, PA 15222. Office of Oil and Gas

DEC 1 4 2015

### Declaration of Consideration of Value

The Grantee hereby declares that the consideration being paid to Grantor for the transfer of real estate is \$\_\_\_\_\_.

Given under my hand this 4th day of Daranbet, 2015.

TOT PRODUCTION COMPANY

John W. Damato Attorney-In-Fact

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3-1-63.18 120

ARTICLES OF MERGER

OF ZAPATA PETROLEUM CORPORATION AND

STETCO PETROLEUM CORPORATION

SOUTH PENN OIL COMPANY

In compliance with the requirements of Article IX of the Act of the General Assembly of the Commonwealth of Pennsylvania, known as the Business Corporation Law approved May 5,1913, P. L. 364, and afficializable thereto, providing for the merger and controlled for providing SOUTH PENN OIL COMPANY a Pennsylvania corporation, ZAPATA PETROLEUM CORPORATION, a Delaware corporation, hereby certify finder their respective corporate scalar

1. That it is proposed that Zapata Petroleum Corporation and Steico Petroleum Corporation be merged into South Penn Oil Company in accordance will the provisions of a joint plan of meiger and lied "joint Plan and Agreement of Merger" and dated May 7, 1963, a copy of which is attached hereto and made a part hereof.

2. That the surviving corporation is South Penn Oil Company, that the name of the surviving corporation is South Penn Oil Company, that the name of the surviving corporation he changed to Pennsoll Company and that the location of its registered office is Drake Bulliding, 100 Dimeomb Street, Oil City, Pennsylvania.

- 3. That a special meeting of sharcholders of South Penn Oil Company to take action upon the proposed merger was field at 10.00 actock A.M. on July 2, 1903, at the registered office of said corporation, Drake Bullding, 106 Dincomb Street, Oil City, Pennsylvania; that written nolice, stating the place, day, hour and purposes of the meeting, together with a copy of said joint plan of merger and a copy of subsection A of section 908 and of subsections A, B, C and D of section 515 (rights of dissenting shareholders) of the abid Pennsylvania Business Corporation Law, was mailed on June 11, 1963, to all shareholders of said corporation of record on May 28, 1963, which was fixed as the second date for determining the shareholders entitled to vote at said meeting.
- 5. That the Joint Plan and Agreement of Merger was duly addicitized, adopted and approved by Zapata Petroleum Corporation and Steteo 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 Oil Company, as herefolore amended, shall be amended and restated in their enthrety by revising same 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 I of the Business Corporation Law of the Commonicalth of Pennsylvania shall not include any prior decoments.

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 D. D. Hoyaird P. O. Nox 2590 Tulsa, Oklahoma Edward P. Boyle 205 Maple Avenue Oli City, Peimsylvania 1137 West Jackson Boulevard Chicago, Illhols George I., Coleman James G. S. Gammell "Innerwick" Elleraly Hond Edinburgh 12, Scotland R. B. Gujatifek, Jr. Mellon National Bank and Trust Company Wilth Aveilia Pitisbingh 19, Pennsylvania Drake Building 100 Dincomb Street H.W. Gennert Oll City, Pennsylvania L. F. Johnson 240514 Av. 10th J. High Liedtke Room 410, Four Gateway Center Pittsburgh, Pennsylvania Willam C. Lledtke, Jr. Pirst National Bank Building Midland, Texas McDowell, McDowell, Wick & Daly 50 Boylston Street Bradford, Pennsylvania T. I. McDowell John'B. Mitchell 12 South Kentall Avenue Bradford, Pennsylvania Room 110, Pour Gataway Center Plitaburgh, Pennsylvania Thomas O'D. Murray A. J. Saze Drake Building 20 Parkway Lane Hradford, Pennsylvania Charles I., Suhr P. O. Hox (0) Oll City, Pentisylvania J. Z. VanTlie 50 Barliour Street Brailford, Pennsylvania W. S. Zehring 115 Wyllis Oll City, Pennsylvania

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IN TESTIMONY WITHREOF, South Penn Oil Company, Zapara Petroleum 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, 1961.

SOUTH PENH OIL COMPANY

Attest:

J. H. Young

Secretary

Altest

W. M. HRUMLEY, JR.

Secretary

Attent :

MARINE MITCHELL

Secretary

By J. Huon Lieutus

(Corpeante Seal)

ZAPATA PETROLEUM CORPORATION

By W. A. Hoven

President (Corpounte Sent)

STETCO PETROLEUM CORPORATION

By WHALAM C. LINDERS, JR.

Persident

(Confirmate Sex 1)

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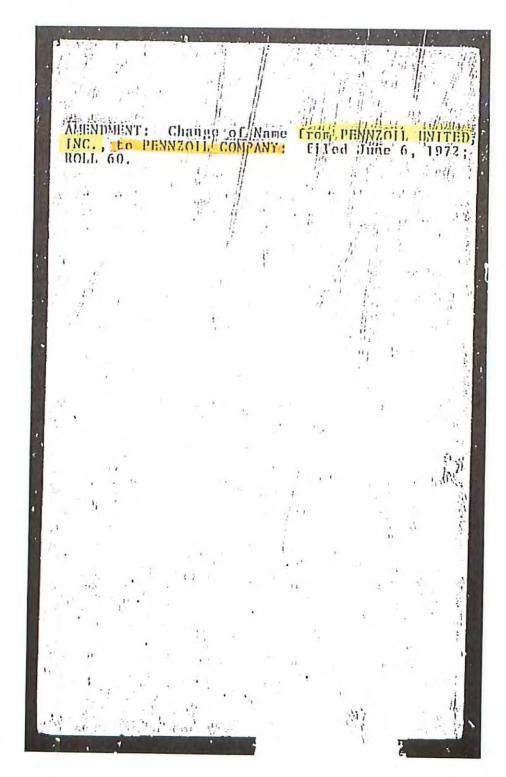
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CARD TO BE REPLACED ONLY BY FILING CLERK
The state of the s
THE ONLY ED, INC.
Ioraian Corporation Delaware
Alvin 900 Southwest Tower
Houston, Texas
April 1, 1968
ROLL 10
AMENDMENT: "Certificate of Incorporation; filed September 27, 1968; Roll 15.
AMENIA September 27, 1968; Roll 15.
AMENIMENT: Certificate of Incorporation; file
AMENDMENT: COLLEGE III III III III III III III III III
May 19, 1969; Roll 23.
MERGER) Elk Refining Company, a.W. Va. corp., merged with and into pennzoil United Inc., the survivor, filed December 31, 1969,
ROLL 30. filed December 31, 1969;
MERGER: Wolf's Head Oil Refining Company; Co. (See above) merged With and into Danuary 20, 1970; Roll 31.
Incorporated, a Dela corp. Wand Elk Person
Pennzoll United Inc. 7 the girly you
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WV Department of /29/2016 Environmental Protection



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