

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 10303033, Well #: 515111

Changed Target Formation, Extend Lateral

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, Layler 15

Gene Smith

Assistant Chief of Permitting

Office of Oil and Gas



January 26, 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 47-103-03033

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 and the formation from Geneseo to Marcellus. 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

Enc.

4701030333 MOV

WW - 6B (4/15)

API NO.	47		103	4	03033
OPERATO	RWE	LL NO			515111
Well Pag	1 Nar	ne:			BIG360

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

1) Well Operator: EQT Product	ion Company		306686	103	4	254
			Operator ID	County	District	Quadrangle
2) Operator's Well Number:		515111		Well Pad Nam	ne	BIG360
3) Farm Name/Surface Owner : _	Coasta	al Forest Res	sources	Public Road A	ccess:	Rt 76
4) Elevation, current ground:	1,008.0	Eleva	tion, proposed p	post-construction	:998.	0
5) Well Type: (a) Gas	Oil	Un	derground Stor	age		
Other						
(b) If Gas:	Shallow		Deep			
	Horizontal	/ <u>*</u>			D	hli
6) Existing Pad? Yes or No:	No				1	n14 270-15
7) Proposed Target Formation(s),	Depth(s), Antici	pated Thickr	nesses and Ass	ociated Pressure	e(s):	
Target formation is Marcellus at a	a depth of 7087			oe 51 feet and antid	cipated target pre	ssure of 2620 PSI
8) Proposed Total Vertical Depth:		1 op or	Marcellus 706			
9) Formation at Total Vertical Dept	th.			7087		
10) Proposed Total Measured Dep				Marcellus		
11) Proposed Horizontal Leg Leng				12176		
12) Approximate Fresh Water Stra			No obove to	4271	# 5.5 Ti S NO	
13) Method to Determine Fresh Wa			NO SHOWS 10	ound in completion		in 4000'
14) Approximate Saltwater Depths				By offset w	elis	
15) Approximate Coal Seam Depth				1,961		
16) Approximate Depth to Possible		e karet othe	\r\·	69, 429, 650, 752		
17)Does proposed well location col	ntain coal seam	s directly over	arlying or		None re	ропеа
adjacent to an active mine?	The state of the s	o directly ove	The state of the s	25	NI-	
(a) If Yes, provide Mine Info:	Name:		1.6	es	_ 140	
And the state of t	Depth:					
	Seam:					
	Owner					
	20020					

Page 1 of 3

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01/29/2016

API NO.	47	-	103	 03033
OPERATO	R WE	LL NO	i.	515111
Well Par	l Nar	ne:		BIG360

CASING AND TUBING PROGRAM

18)

TYPE	Size	New	Grade	Weight per ft.	FOOTAGE:	INTERVALS:	CEMENT:
	<u>(in)</u>	<u>or</u> Used		(lb/ft)	for Drilling	Left in Well	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	-	-	1	-	-	1 = 1 2 = 1	
Intermediate	9 5/8	New	A-500	40	2,480	2,480	971 C.T.S.
Production	5 1/2	New	P-110	20	12,176	12,176	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)	<u>Wellbore</u> <u>Diameter (in)</u>	Wall Thickness (in)	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					1		1
Intermediate	9 5/8	12 3/8	0.395	3,950	3,160	* See Note 2	1.19
Production	5 1/2	8 1/2	0.361	12,640	10,112		1.07/1.86
Tubing							
Liners							

Packers

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

Note 1: EQT plans to bring the TOC on the production casing cement job 500' above the top producing zone.

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

Page 2 of 3

4701030333 MOV

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OPERATOR WELL NO. Well Pad Name: and max rate: ared wells and obtained fro ng 15% Hydrochloric acid " completion. Maximum g rates are expected to av- ter per stage. Sand sizes	BIG360
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	± 16. ± 5.02 Cement): 0-3% Calcium ef zone. ns to speed the setting of id or cement slurry (not large) s/lengthens thickening tires s/lengthens thickening tires to circulate an addition not clean up. Luttings diminish at foam drilling, to enhare ottoms up volume. cuttings coming across

01/29/2016 Page 3 of 3



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.

1

James Peterson

Environmental Resources Specialist / Permitting

4701030333MOV

Promoting a healthy environment.

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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.

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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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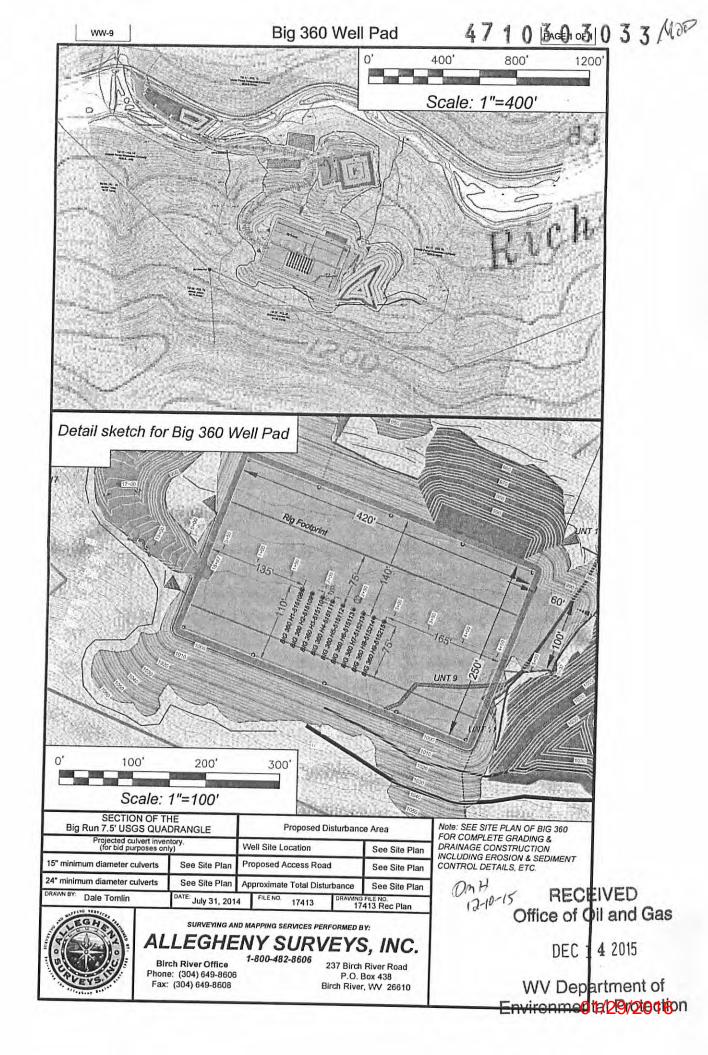
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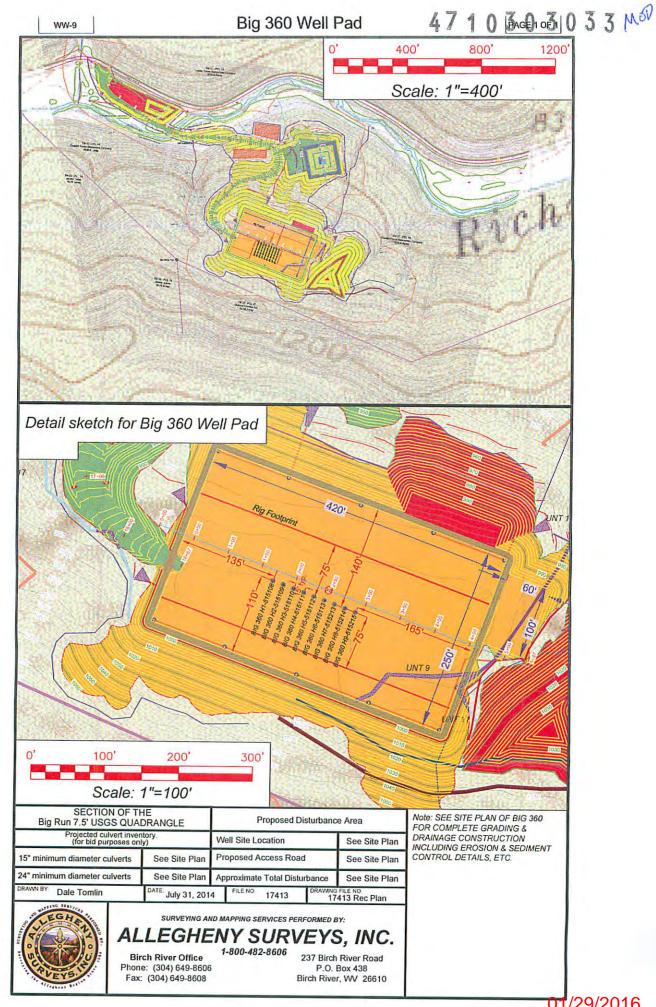
DEC 1 4 2015

WV Department of Environmental Protection 01/29/2016 Well 515111 (BIG360H4)

EQT Production Big Run Pad Name

Gas







Site Specific Safety Plan

EQT BIG 360 Pad

<u>Jacksonburg</u>

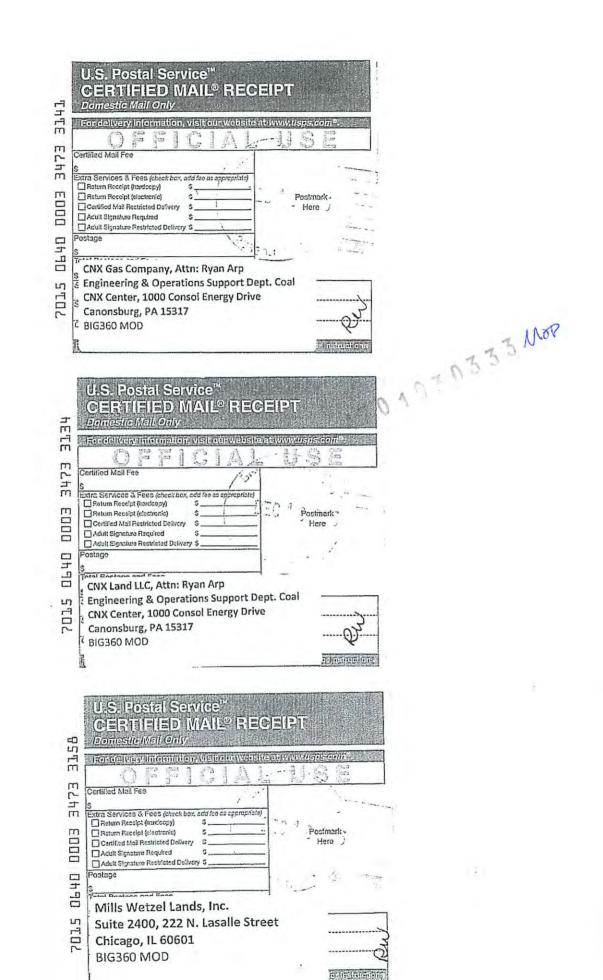
Wetzel County, WV

_515108	515109	515110	For Wells: 515111	515112
Date Prepared: EQT Production Title 12 - 8 - 1	August 7, 2	<u>014</u> envisor		Date Reviewed: December 3, 2015 WV Oil and Gas Inspector Title 12-10-15 Date RECEIVER CEIVED Office of Office o

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Article Addressed to:	D. Is delivery address different from item 125 Yes
CNX Land LLC, Attn: Ryan Arp Engineering & Operations Support Dept. Coal	If YES, enter delivery address below: No
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anonsburg, PA 15317	
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SENDER: COMPLETE THIS SECTION © Complete items 1, 2, and 3.	Domestic Return Receipt COMPLETE THIS SECTION ON DELIVERY A. Signature
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SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Mills Wetzel Lands, Inc.	COMPLETE THIS SECTION ON DELIVERY A. Signature X. Agent B. Received by (Printed Name) O. Date of Delivery C. Date of Delivery
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515111

WW-6A1 (5/13)

Operator's Well No.

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>.ease 988530</u>		Min 1/8 pd	
	Mills Wetzel Lands, Inc.	EQT Production Company	O&G 126A/288
.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 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
	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	Unrecorded Merger - Se attached
	Pennzoil Company	Pennzoil United Inc.	DB 246/491
	Pennzoil United Inc.	Pennzoil Company	Unrecorded Name Chan 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 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

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American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	MB 114/619
Ascent Resources - Marcellus, LLC	EQT Production Company	O&G 166A/663
Convict Lance et al.	LI C. Croupon	DB 53/169
Georgia H. Jones, et al.	H.S. Grayson	
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 Compan	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

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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Office of Oil and Gas

DEC 1 4 2015

WV Department of Environmental Protection 01/29/2016

3-1-63.18 120

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 Business Corporation Law approved May 5,1913, P. L. 361, and amendments thereto, providing for the merger and conscious for providing SOUTH PENN OIL COMPANY a Pennsylvania corporation ZAPATA PRINCLEUM CORPORATION, a Delaware comporation, and STETCO PETROLEUM CORPORATION, a Delaware corporation, hereby cellify finder their respective corporate scalar

1. That it is proposed that Zapata Petroleum Corporation and Steleo Petroleum Corporation be merged into South Pean Oil Company in accordance with the provisions of a Joint plan of merger calliled "Joint Plan and Agreement of Merger" and dated May 7, 1963, a copy of which is attached hereto and made a part hereof.

22. That the surviving corporation is South Penn Oil Company, that the name of the surviving corporation be cleaned to Pennzul Company and that the location of its registered office is Drake Building, 100 Dancomb Street, Oil City, Pennsylvania.

3. That a special meeting of shareholders of South Penn Oil Company to lake action upon the proposed merger was held in 10.00 Schock A.M. on July 2, 1903, at the registered office off sald corporation, Drake Building, 106 Duncomb Street, Oil City, Pennsylvania; that written notice, stating the place, day, hour and piliposes of the meeting, together with a copy of, sald joint plan of merger and a copy of subsection A of section 503 and of subsections A, B, C and D of section 515 (rights of dissenting sincetioiders) of the and Pennsylvania Business Corporation Law, was mailed on June 11, 1963, to all shareholders of sald corporation of record on May 28, 1963, which was fixed as the record thate for determining the shareholders entitled to vote at said meeting.

July 2, 1963, the authorized himber of all shares of the capital stock of said corporation was 1,715,000 shares of common stock of the shares of the capital stock of said corporation was 1,715,000 shares of common stock of the rate of \$12.50 cach, of while 1,589,750 thares were constantly and were entitled to be voted at the needing and 112,850 shares were held in the freesaitly of said corporation and were not with the too be voted at the heating; and that at said meeting and plan of merger was adopted and approved by the affirmative vote of the holders of 1,161, 61,24 chares of common stock, there having been voted against the same 2,4,680.

5. That the Joint Plan and Agreement of Merger was duly adhibitized, adopted and approved by Zapata Pelroleum Corporation and Stetco Petroleum Corporation in accordance with the lays of the State of Delaware, the furisdiction in which they were formed.

6. That, as provided in Section 5 of said joint plan of tileffer, the Articles of Incorporation of Saidh Penn Oll Company, as herefolore amended, shall be amended shift restated in their cathrety 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 Commonirealth of Pennsylvania shall not include any prior documents.

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

Name D. D. Boyning P. O. Box 2590 Tulsa, Oklahoma Edward P. Boyle 205 Maple Avenue Oll City, Pennsylvania George L. Coleman 1137 (Yest Jackson Houlevard Chicago, Illinois "Innerviek" Ellersly Road Edlaburgh 12, Scotland James G. S. Gammell R. H. Glipatrick, Jr. Mellon National Bank and Trust Company Fifth Aventie Pitisburgh 19, Pennsylvania R.W. Grunert Drake Building 106' Duncomb Street Oll 'City, Pennsylvania L. F. Johnson 210514 ... toth Los Angeles, California Room 410, Four Gateway Center Plitsburgh, Pennsylvania J. High Liedtke Plest National Bank Huilding Middand, Texas AtcDnwell, McDowell, Wick & Daly 50 Boylston Street Bradford, Pennsylvania Willam C. Lledtke, Jr. T. I. McDowell John B. Mitchell 12 South Kentall Avenue Brailford, Pennsylvania Room 10, Four Gnteway Center Pittiburgh, Pennsylvania Thomas O'D, Murray A. J. Saxe Drake Building 20 Parkway Lane Bradford, Pennsylvania Charles I., Suhr Dil City, l'entisylvania J. Z. Vohrtie 50 Barliour Street Bradlord, Pennsylvania W. S. Zehring 115 Wyllis ... Oll City, Pennsylvania

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IN TESTIMONY WITHIROP, South Penn Oil Company, Zapain 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 2ml day of July, 1963.

SOUTH PENHOIL COMPANY

Ailest:

J. H. Younn

Secretary

Altests

W. M. HRUMLEY, JR.

Attests

MARINE MITCHELL

Secretary

Secretary

By J. Huan Lieites

(Corponte Seal)

ZAPATA PETROLEUM CORPORATION

By W. A. Hoven

President

(Corpounte Sent)

STETCO PETROLEUM CORPORATION

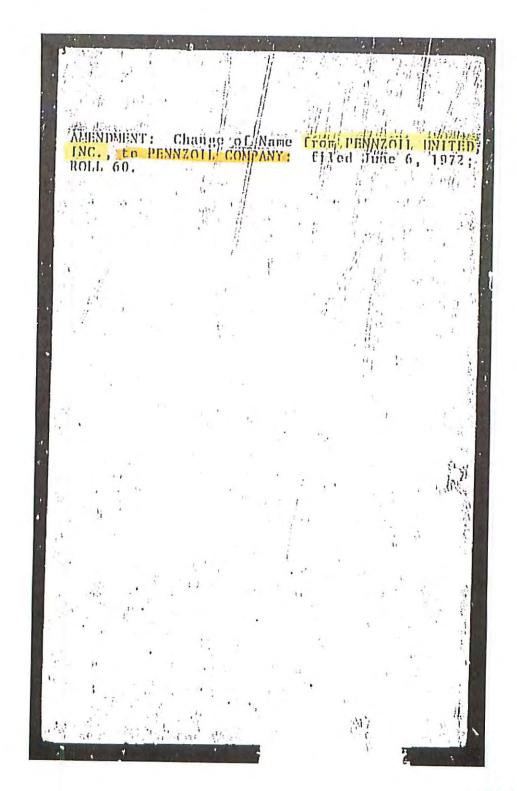
By WILLIAM C. LIRBERT, JR. Persident

(Compounts Sent)

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CARD TO BE REPLACED ONLY BY	Siar I AS FILING CLERK
PENNZOIL UNITED, IN	ic.
foreign Corporation Delaware	
Aun 900 Southwest Towe	r
Houston, Texas	
Amilied April 1, 1968	
ROLL 10 ROLL 10 RENIMENT: Certificate of Inc. Filed September 27, 1968; Roll	orporation;
AMENIMENT: Certificate of Inc. February 11, 1969; Roll 20.	orporation; file
AMENDMENT: Certificate of Incor	poration, filed
MERGER) Elk Refining Company, merged with and into Pennzoil the survivor, filed December	acw. Va. corp. United inc., 31, 1969;
MERGER! Wolf's Head off Refinition of the Strain Co., (See above) merged with a pennion united, Inc. the strain unitery 20, 1970; Roll 31.	ng Company ng Elk Refining nd Into Vivor, filed
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