

BEFORE THE VIRGINIA GAS AND OIL BOARD

APPLICANT: CNX Gas Company LLC

DIVISION OF GAS AND OIL
DOCKET NO.: VGOB 17-0117-4106

RELIEF SOUGHT: POOLING

LOCATION: SEE EXHIBITS "A" AND "A1"

HEARING DATE: January 17, 2017

UNIT NUMBER: J-32
IN THE OAKWOOD COALBED METHANE GAS FIELD I

BUCHANAN COUNTY, VIRGINIA

APPLICATION

1. **Applicant and its counsel:** Applicant is CNX Gas Company LLC, 627 Claypool Hill Mall Road, Cedar Bluff, Virginia, 24609. Applicant's counsel is Mark A. Swartz, Hilliard & Swartz, LLP, 122 Capitol Street, FL 2, Charleston, WV 25301.

2. **Relief sought:** Pooling under Oakwood Coalbed Methane Gas Field I.

3. **Legal Authority:** Va. Code Ann. §45.1-361.1 et seq. 4 VAC 25-160-10 et seq. and relevant Virginia Gas and Oil Board Orders heretofore promulgated pursuant to law including OGCB 3-90; VGOB-91-1119-162; VGOB 92/02/16-0336; and VGOB 93/03/16-0349.

4. **Type of well(s):** Coalbed methane, including increased density wells as required by mining plans.

5. **Permit numbers, if any:**

6. **Plat:** Annexed hereto are Exhibit A and the Tract Identifications for Exhibit A. The Plat shows the size and shape of the unit and the boundaries of the tracts within the unit. The plat is certified by a licensed professional engineer and is attested by the undersigned on behalf of the applicant to be in conformity with existing orders issued by the Board.

7. **Status of interests to be pooled/re-pooled and Applicant' standing:** The respondents whose interests are sought to be pooled/re-pooled by the Applicant are:

Barbara & Gene Meadows, et vir; Alma Cline, Myrville Lester, Phyllis Ball, Donald Terry Keaton, Donna Cindy Stiltner, Kyle "Bo" Ward, Eileen Ward, Skeets Ward, Retha E. Martin, Olga E. Ward, Brenda & David Horton

Further, said respondents are listed in Exhibit B-3 hereto which describes their interests/claims. The respondents and others, if any, whose interests are subject to escrow under §45.1-361.21.D. are identified at Exhibit E. The annexed Exhibit B-3 at pages 2 and 3 sets forth the total interest(s) held by Applicant in the unit.

8. **Formation(s) to be produced and estimates:** All coal seams and associated strata below the Tiller seam of coal all as more particularly described in the annexed proposed


order. The estimated total production from subject unit is **125 to 550** MMCF. The estimated amount of reserves from the subject drilling unit is **125 to 550** MMCF. These figures concerning estimated production and the amount of reserves are, however, estimates only that are not based upon actual production and should not be relied upon for any purpose. It should not be assumed that final production before plugging and abandonment will equal estimated reserves.

9. **Estimate of allowable costs: \$636,674.00 (Well J32 \$323,855.00 & J32A \$312,819.00)** See Exhibit C which estimates/reports the costs associated with two frac wells. To the extent additional wells may be required by mine plans in the Buchanan No. 1 Mine, the costs of any such additional wells as may be permitted by the Division of Gas and Oil, in accordance with the provisions of §45.1-361.20.C., Code of Virginia, will not be allocated for frac well production to the subject unit by the Operator.

10. **Attestation:** The foregoing application, to the best of my knowledge, information, and belief, is true and correct.

CNX GAS COMPANY LLC
BY ITS PROFESSIONAL MANAGER
CNX GAS COMPANY LLC, PETITIONER

By: _____


Anita D. Duty
Pooling Supervisor
627 Claypool Hill Mall Road
Cedar Bluff, Virginia 24609

BEFORE THE VIRGINIA GAS AND OIL BOARD

APPLICANT: CNX Gas Company LLC

DIVISION OF GAS AND OIL
DOCKET NO. VGOB 17-0117-4106

RELIEF SOUGHT: POOLING

UNIT NUMBER: J-32

NOTICE OF HEARING

HEARING DATE: January 17, 2017
PLACE: Russell County Conference Center
135 Highlands Drive
Lebanon, Virginia 24266
TIME: 9:00 AM

COMMONWEALTH OF VIRGINIA:

To: *Barbara & Gene Meadows, et vir; Alma Cline, Myrville Lester, Phyllis Ball, Donald Terry Keaton, Donna Cindy Stiltner, Kyle "Bo" Ward, Eileen Ward, Skeets Ward, Retha E. Martin, Olga E. Ward, Brenda & David Horton*

1. **Applicant and its counsel:** Applicant is **CNX Gas Company LLC**, 627 Claypool Hill Mall Road, Cedar Bluff, Virginia, 24609. Applicant's counsel is Mark A. Swartz, Hilliard & Swartz, LLP, 122 Capitol Street, FL 2, Charleston, WV 25301.

2. **Relief sought:** Pooling

3. **Proposed provisions of order:** (a) Pooling all the interests and estates of the persons named above in coalbed methane in the unit in question; (b) Establishing a procedure whereby each respondent shall have the right to make elections; (c) Providing that any respondent who does not make a timely election shall be deemed to have leased or assigned his coalbed methane gas interests to the applicant at a rate to be established by the Board; (d) Designating CNX Gas Company LLC as Unit Operator; (e) Making any necessary provisions for the escrow of funds; (f) Granting such other relief as is merited by the evidence and is just and equitable, whether or not such relief has been specifically requested herein.

4. **Legal Authority:** Va. Code Ann. §45.1-361.1 et seq. 4 VAC 25-160-10 et seq. and relevant Virginia Gas and Oil Board Orders heretofore promulgated pursuant to law including OGCB 3-90; VGOB-91-1119-162; VGOB 92/02/16-0336; and VGOB 93/03/16-0349.

5. **Type of well(s):** Coalbed methane.

6. **Plat:** Annexed hereto are Exhibit A, Exhibit A1 and the Tract Identifications for Exhibit A. The Plat shows the size and shape of the unit and the boundaries of the tracts within the unit. The Tract Identification page shows the percentage of acreage in each tract. The plat is certified by a licensed professional engineer and is attested by the undersigned on behalf of the applicant to be in conformity with existing orders issued by the Board.

7. **Your interest or claim sought to be pooled by this Application pertains to coalbed methane gas.**

8. **Formation(s) to be produced and estimates:** All coal seams and associated strata below the Tiller seam of coal all as more particularly described in the annexed proposed order. The estimated total production from subject unit is **125 to 550** MMCF. The estimated amount of reserves from the subject drilling unit is **125 to 550** MMCF. These figures concerning estimated production and the amount of reserves are, however, estimates only that are not based upon actual production and should not be relied upon for any purpose. It should not be assumed that final production before plugging and abandonment will equal estimated reserves.

9. **Estimate of allowable costs:** **\$636,674.00 (Well J32 \$323,855.00 & J32A \$312,819.00)**

10. **Attestation:** The foregoing application to the best of my knowledge, information, and belief is true and correct.

NOTICE IS FURTHER GIVEN that this cause has been set for hearing and the taking of evidence before the Board at 9:00 AM, on **January 17, 2017**, at the Russell County Government Conference Center, 139 Highlands Drive, Lebanon, Virginia 24266, and that notice will be published as required by law and the Rules of the Board.

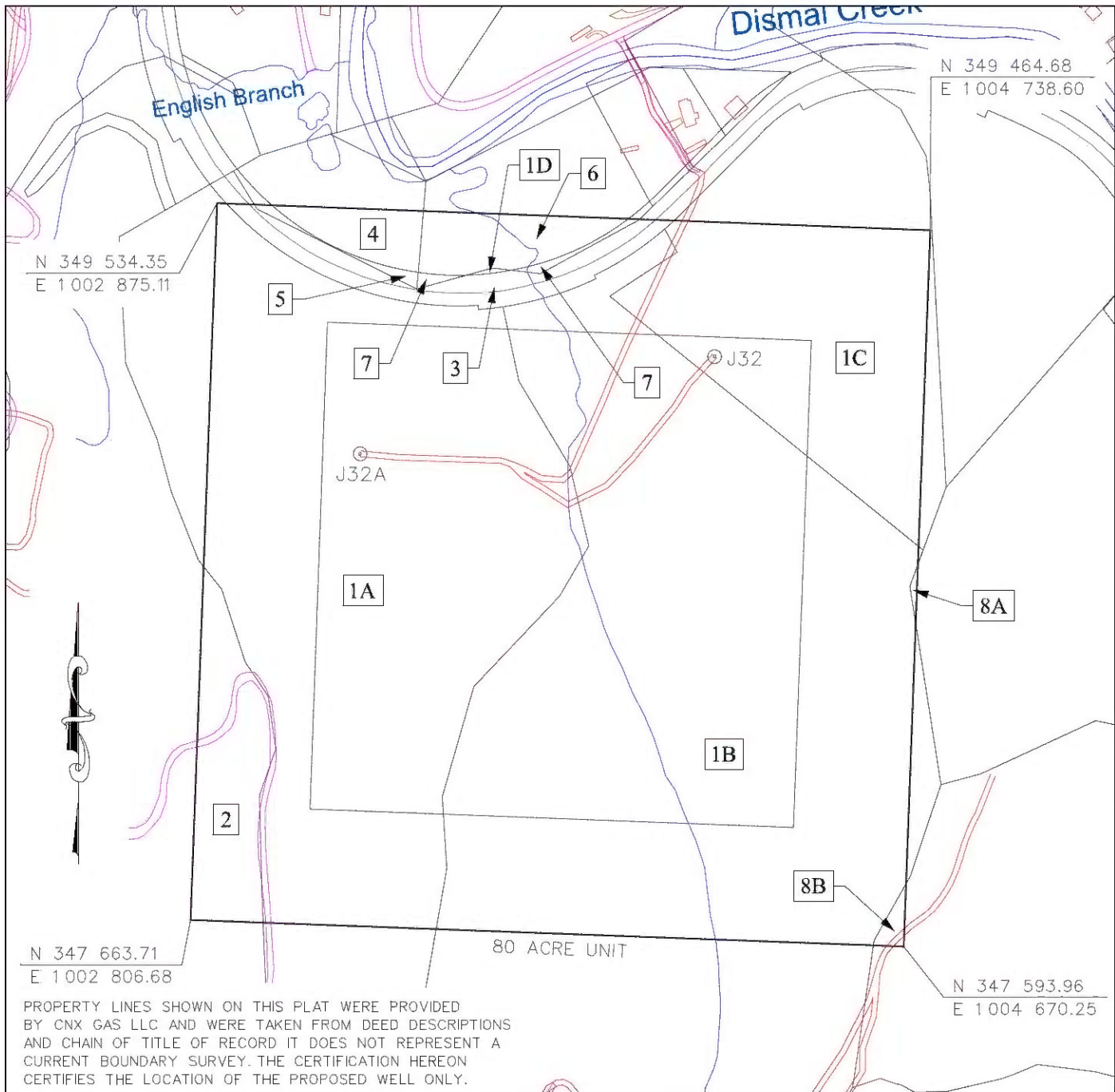
NOTICE IS FURTHER GIVEN that you may attend this hearing, with or without an attorney, and offer evidence or state any comments you have. For further information or a copy of the Application and Exhibits, either contact the Virginia Gas and Oil Board, State Oil and Gas Inspector, Department of Mines, Minerals and Energy, the Division of Gas and Oil, 135 Highland Drive, Lebanon, Virginia 24266, 276/415-9650 or the Applicant at the address shown below.

DATED: 12/16/16

CNX GAS COMPANY LLC
BY ITS PROFESSIONAL MANAGER
CNX GAS COMPANY LLC, PETITIONER

By: 

Anita D. Duty
Pooling Supervisor
627 Claypool Hill Mall Road
Cedar Bluff, Virginia 24609



CBM WELL
 PROPOSED CBM WELL



EXHIBIT A
 OAKWOOD FIELD
 UNIT J32
 FORCE POOLING
 VGOB-17-0117-4106

Company CNX Gas Company LLC Well Name and Number UNIT J32
 Tract No. _____ Elevation _____ Quadrangle KEEN MOUNTAIN
 County BUCHANAN District GARDEN Scale: 1" = 400' Date 12/7/16
 This plat is a new plat X ; an updated plat _____ ; or a final plat _____

Form DGO-GO-7 _____ (Affix Seal)
 Rev. 9/91 Licensed Professional Engineer or Licensed Land Surveyor

CNX Gas Company LLC
UNIT J32
Tract Identifications

1. C.L. Ritter Lumber Company Tr. 37 (126.30 Acre Tract) – All Minerals
Island Creek Coal Company – All seams of coal underlying the Tiller seam expect the P3 Leased
Buchanan Mining Company, LLC – P3 seam Leased
Jewell Smokeless Coal Corporation – Tiller Seam and Above Coal Leased
Energy Corporation of America – Oil and Gas Leased
CNX Gas Company LLC – CBM Leased
72.13 Acres 90.1625%

- 1A. Jewell Smokeless Coal Corporation – Surface
- 1B. Jewell Smokeless Coal Corporation – Surface
- 1C. Jewell Smokeless Coal Corporation – Surface
- 1D. Unknown Surface Owner

2. C.L. Ritter Lumber Company Tr. 36 (117.60 Acre Tract) – All Minerals
Island Creek Coal Company – All seams of coal underlying the Tiller seam expect the P3 Leased
Buchanan Mining Company, LLC – P3 seam Leased
Jewell Smokeless Coal Corporation – Tiller Seam and Above Coal Leased
Energy Corporation of America – Oil and Gas Leased
CNX Gas Company LLC – CBM Leased
Unknown Surface Owner
3.16 Acres 3.9500%

3. Norfolk Southern Railway – Coal
C.L. Ritter Lumber Company – Oil and Gas
Energy Corporation of America – Oil and Gas Leased
CNX Gas Company LLC – CBM Leased
Norfolk Southern Railway – Surface
1.88 Acres 2.3500%

4. Barbara Meadows, et vir – Minerals
Unknown Surface Owner
0.91 Acres 1.1375%

5. Norfolk Southern Railway – All Minerals except Coal 800 feet and below
Barbara Meadows, et vir – Coal 800 feet and below
CNX Gas Company LLC – CBM Leased (Norfolk Southern Railway)
Unknown Surface Owner
0.14 Acres 0.1750%

6. David S. Horton, et al – Minerals
Unknown Surface Owner
1.46 Acres 1.8250%

7. Norfolk Southern Railway – All Minerals except Coal 800 feet and below
CNX Gas Company LLC – CBM Leased (Norfolk Southern Railway)
David S. Horton, et al – Coal 800 feet and below
Unknown Surface Owner
0.15 Acres 0.1875%

(This title block is for general informational purposes only and does not reflect an analysis of the severance deed and its effect upon coalbed methane ownership and should not be relied upon for such purpose.)

CNX Gas Company LLC
UNIT J32
Tract Identifications

- 8. Buchanan Mining Company LLC, et al Big Vein Tr. 141 (394.75 Acre Tract) – Coal
Island Creek Coal Company – Coal Below Tiller Seam Leased
Buchanan Mining Company LLC – P3 Seam Sub-leased
Jewell Smokeless Coal Corporation – Tiller and Above Coal Leased
Highland Resources/North American Resources Corporation, et al – Oil and Gas
Cities Service Oil and Gas Corporation – Oil and Gas Leased
Plum Creek Timberland (1/3) – CBM
CNX Gas Company LLC – CBM Leased
0.17 Acres 0.2125%

- 8A. Unknown Surface Owner
- 8B. Unknown Surface Owner

(This title block is for general informational purposes only and does not reflect an analysis of the severance deed and its effect upon coalbed methane ownership and should not be relied upon for such purpose.)

Exhibit B
Unit J-32
VGOS# 17-0117-4106
List of all Owners/Claimants

		Acres in Unit	Percent of Unit
I. COAL OWNERSHIP			
<u>Tract #1, 72.13 Acres</u>			
(1)	C. L. Ritter Lumber Company <i>Tr. 37 (126.30 Acre Tract)</i> P.O. Box 700 Huntington, WV 25711	72.13 acres	90.1625%
<u>Tract #2, 3.16 Acres</u>			
(1)	C. L. Ritter Lumber Company <i>Tr. 36 (117.60 Acre Tract)</i> P.O. Box 700 Huntington, WV 25711	3.16 acres	3.9500%
<u>Tract #3, 1.88 Acres</u>			
(1)	Norfolk Southern Railway Company Pocahontas Land Corporation P. O. Box 1517 Bluefield, WV 24701	1.88 acres	2.3500%
<u>Tract #4, 0.91 Acres</u>			
(1)	Barbara & Gene Meadows, et vir 3900 Midlothian Ave Tpk Richmond, VA 23224-1324	0.91 acres	1.1375%
<u>Tract #5, 0.14 Acres</u>			
(1)	Norfolk Southern Railway Company (<i>exc. Coal bel. 800'</i>) Pocahontas Land Corporation P. O. Box 1517 Bluefield, WV 24701	0.14 acres	0.1750%
X	(2) Barbara & Gene Meadows, et vir (<i>Coal bel. 800'</i>) 3900 Midlothian Ave Tpk Richmond, VA 23224-1324	0.14 acres	0.1750%
<u>Tract #6, 1.46 Acres</u>			
(1)	David S. Horton, et al	1.46 acres	1.8250%
(a)	Lydia Ward Heirs, Deviseses, Successors or Assigns		
(a.1)	Hufford Ward Heirs, Deviseses, Successors or Assigns		
(a.1.1)	Alma Cline PO Box 660 Raven, VA 24639	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.2)	Myrville Lester PO Box 561 Doran, VA 24612	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.3)	Phyllis Ball 4133 McMinnville Hwy Sparta, TN 38583	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.4)	Loeann Ward Keaton Heirs, Deviseses, Successors or Assigns (1/63)		
(a.1.4.1)	Donald Terry Keaton 500 County Rd 4820 DeLeon, TX 76444	0.01 acres 1/189 of 1.46 acres	0.0097%
(a.1.4.2)	Donna Cindy Stiltner 180 Beverly Hollow Rd Wallace, WV 26448	0.01 acres 1/189 of 1.46 acres	0.0097%
(a.1.4.3)	Kyle "Bo" Ward PO Box 1134 Vansant, VA 24656	0.01 acres 1/189 of 1.46 acres	0.0097%
(a.1.5)	Kyle Ernest Ward Heirs, Deviseses, Successors or Assigns		
(a.1.5.1)	Eileen Ward PO Box 2934 Lebanon, VA 24266	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.6)	Skeets Ward 315 Old Dunbam Bridge Rd Greenville, SC 29611	0.02 acres 1/63 of 1.46 acres	0.0290%

Exhibit B
Unit J-32
VGOB# 17-0117-4106
List of all Owners/Claimants

	Acres in Unit	Percent of Unit
(a.1.7) Retha E. Martin 995 County Rd 488 Stephenville, TX 76401	0.02 acres 1/63 of 1.46 acres	0.0290%
(b) Burt R. Ward Heirs, Devisees, Successors or Assigns		
(b.1) Irene S. Adkins	<i>Conveyed 11/19/1970 by DB 197/315</i>	
(b.1.1) Thomas Lloyd Ward Heirs, Devisees, Successors or Assigns		
(b.1.1.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.16 acres 1/9 of 1.46 acres	0.2028%
(c) Ben Franklin Ward	<i>Deceased - No issue</i>	
(d) Exie Ward & R.R. Strickland	<i>Conveyed 9/20/1967 by DB 180/546</i>	
(d.1) Gene A. & Barbara J. Meadows 2081 Airy Circle Henrico, VA 23238	0.16 acres 1/9 of 1.46 acres	0.2028%
(e) Reba Ward Pericelli	<i>Conveyed 4/6/1970 by DB 178/379</i>	
(e.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(e.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(e.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(e.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(f) Ellen Ward Taylor	<i>Conveyed 7/3/1968 by DB 187/66</i>	
(f.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(f.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(f.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(f.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(g) Dennis Ward	<i>Conveyed 4/6/1967 by DB 178/381</i>	
(g.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(g.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(g.1.1.1) Brenda & David Horton PO Bcx 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(g.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(h) Bethel Prater (aka Rebecca Ward)	<i>Conveyed 4/6/1967 by DB 178/383</i>	
(h.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(h.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(h.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(h.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(i) Evelyn C. Stevenson	<i>Conveyed 4/6/1967 by DB 178/383</i>	
(i.1) Thomas Lloyd Ward Heirs, Devisees, Successors or Assigns		

Exhibit B
Unit J-32
VGOB# 17-0117-4106
List of all Owners/Claimants

		Acres in Unit	Percent of Unit
	(i.1.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.16 acres 1/9 of 1.46 acres	0.2028%
	(j) Thomas Lloyd Ward Heirs, Devises, Successors or Assigns		
	(j.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.16 acres 1/9 of 1.46 acres	0.2028%
	<u>Tract #7, 0.15 Acres</u>		
	(1) Norfolk Southern Railway Company <i>(exc. Coal bel. 800')</i> Pocahontas Land Corporation P. O. Box 1517 Bluefield, WV 24701	0.15 acres	0.1875%
X	(2) David S. Horton, et al	0.15 acres	0.1875%
	(a) Lydia Ward Heirs, Devises, Successors or Assigns		
	(a.1) Hufford Ward Heirs, Devises, Successors or Assigns		
	(a.1.1) Alma Cline PO Box 660 Raven, VA 24639	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(a.1.2) Myrville Lester PO Box 561 Doran, VA 24612	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(a.1.3) Phyllis Ball 4133 McMinnville Hwy Sparta, TN 38583	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(a.1.4) Loeann Ward Keaton Heirs, Devises, Successors or Assigns (1/63)		
	(a.1.4.1) Donald Terry Keaton 500 County Rd 4820 DeLeon, TX 76444	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(a.1.4.2) Donna Cindy Stillner 180 Beverly Hollow Rd Wallace, WV 26448	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(a.1.4.3) Kyle "Bo" Ward PO Box 1134 Vansant, VA 24656	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(a.1.5) Kyle Ernest Ward Heirs, Devises, Successors or Assigns		
	(a.1.5.1) Eileen Ward PO Box 2934 Lebanon, VA 24266	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(a.1.6) Skeets Ward 315 Old Dunham Bridge Rd Greenville, SC 29611	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(a.1.7) Retha E. Martin 995 County Rd 488 Stephenville, TX 76401	0.0024 acres 1/63 of 0.15 acres	0.0030%
	(b) Burt R. Ward Heirs, Devises, Successors or Assigns		
	(b.1) Irene S. Adkins	<i>Conveyed 11/19/1970 by DB 197/315</i>	
	(b.1.1) Thomas Lloyd Ward Heirs, Devises, Successors or Assigns		
	(b.1.1.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.0167 acres 1/9 of 0.15 acres	0.0208%
	(c) Ben Franklin Ward	<i>Deceased - No issue</i>	
	(d) Exie Ward & R.R. Strickland	<i>Conveyed 9/20/1967 by DB 180/546</i>	

Exhibit B
Unit J-32
VGOB# 17-0117-4106
List of all Owners/Claimants

	Acres in Unit	Percent of Unit
(d.1) Gene A. & Barbara J. Meadows 2081 Airy Circle Henrico, VA 23238	0.0167 acres 1/9 of 0.15 acres	0.0208%
(e) Reba Ward Pericelli	<i>Conveyed 4/6/1970 by DB 178/379</i>	
(e.1) Foyster L. Cole Heirs, Deviseses Successors or Assigns		
(e.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(e.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.0083 acres 1/18 of 0.15 acres	0.0104%
(e.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.0083 acres 1/18 of 0.15 acres	0.0104%
(f) Ellen Ward Taylor	<i>Conveyed 7/3/1968 by DB 187/66</i>	
(f.1) Foyster L. Cole Heirs, Deviseses Successors or Assigns		
(f.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(f.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.0083 acres 1/18 of 0.15 acres	0.0104%
(f.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.0083 acres 1/18 of 0.15 acres	0.0104%
(g) Dennis Ward	<i>Conveyed 4/6/1967 by DB 178/381</i>	
(g.1) Foyster L. Cole Heirs, Deviseses Successors or Assigns		
(g.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(g.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.0083 acres 1/18 of 0.15 acres	0.0104%
(g.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.0083 acres 1/18 of 0.15 acres	0.0104%
(h) Bethel Prater (aka Rebecca Ward)	<i>Conveyed 4/6/1967 by DB 178/383</i>	
(h.1) Foyster L. Cole Heirs, Deviseses Successors or Assigns		
(h.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(h.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.0083 acres 1/18 of 0.15 acres	0.0104%
(h.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.0083 acres 1/18 of 0.15 acres	0.0104%
(i) Evelyn C. Stevenson	<i>Conveyed 4/6/1967 by DB 178/383</i>	
(i.1) Thomas Lloyd Ward Heirs, Deviseses, Successors or Assigns		
(i.1.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.0167 acres 1/9 of 0.15 acres	0.0208%
(j) Thomas Lloyd Ward Heirs, Deviseses, Successors or Assigns		
(j.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.0167 acres 1/9 of 0.15 acres	0.0208%
<u>Tract #8, 0.17 Acres</u>		
(1) Buchanan Mining Company LLC, et al <i>Big Vein Tr. 141 (394.75 Acre Tract)</i>	0.17 acres	0.2125%
(a) Yukon Pocahontas Coal Company P.O. Box 187 Tazewell, VA 24651	0.09 acres 1/2 of 0.17 acres	0.1063%

Exhibit B
Unit J-32
VGOB# 17-0117-4106
List of all Owners/Claimants

	Acres in Unit	Percent of Unit
(b) Buchanan Coal Company P.O. Box 187 Tazewell, VA 24651	0.02 acres 1/9 of 0.17 acres	0.0236%
(c) Sayers-Pocahontas Coal Company P.O. Box 187 Tazewell, VA 24651	0.01 acres 1/18 of 0.17 acres	0.0118%
(d) Buchanan Mining Company 10545 Riverside Dr. Oakwood, VA 24631	0.06 acres 1/3 of 0.17 acres	0.0708%

Note: Plum Creek Timberlands retained their CBM interest, there is no conflict. The royalty for (d) is to be paid to Plum Creek.

II. OIL & GAS OWNERSHIP

100.0000%

Tract #1, 72.13 Acres

(1) C. L. Ritter Lumber Company <i>Tr. 37 (126.30 Acre Tract)</i> P.O. Box 700 Huntington, WV 25711	72.13 acres	90.1625%
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Oil & Gas estates leased by Energy Corporation of America

Tract #2, 3.16 Acres

(1) C. L. Ritter Lumber Company <i>Tr. 36 (117.60 Acre Tract)</i> P.O. Box 700 Huntington, WV 25711	3.16 acres	3.9500%
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Oil & Gas estates leased by Energy Corporation of America

Tract #3, 1.88 Acres

(1) C. L. Ritter Lumber Company P.O. Box 700 Huntington, WV 25711	1.88 acres	2.3500%
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Oil & Gas estates leased by Energy Corporation of America

Tract #4, 0.91 Acres

(1) Barbara & Gene Meadows, et vir 3900 Midlothian Ave Tpk Richmond, VA 23224-1324	0.91 acres	1.1375%
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Tract #5, 0.14 Acres

(1) Norfolk Southern Railway Company Pocahontas Land Corporation P. O. Box 1517 Bluefield, WV 24701	0.14 acres	0.1750%
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Tract #6, 1.46 Acres

(1) David S. Horton, et al	1.46 acres	1.8250%
(a) Lydia Ward Heirs, Devises, Successors or Assigns		
(a.1) Hufford Ward Heirs, Devises, Successors or Assigns		
(a.1.1) Alma Cline PO Box 660 Raven, VA 24639	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.2) Myrville Lester PO Box 561 Doran, VA 24612	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.3) Phyllis Ball 4133 McMinnville Hwy Sparta, TN 38583	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.4) Loeann Ward Keaton Heirs, Devises, Successors or Assigns (1/63)		
(a.1.4.1) Donald Terry Keaton 500 County Rd 4820 DeLeon, TX 76444	0.01 acres 1/189 of 1.46 acres	0.0097%

Exhibit B
Unit J-32
VGOB# 17-0117-4106
List of all Owners/Claimants

	Acres in Unit	Percent of Unit
(a.1.4.2) Donna Cindy Stiltner 180 Beverly Hollow Rd Wallace, WV 26448	0.01 acres 1/189 of 1.46 acres	0.0097%
(a.1.4.3) Kyle "Bo" Ward PO Box 1134 Vansant, VA 24656	0.01 acres 1/189 of 1.46 acres	0.0097%
(a.1.5) Kyle Ernest Ward Heirs, Devisees, Successors or Assigns		
(a.1.5.1) Eileen Ward PO Box 2934 Lebanon, VA 24266	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.6) Skeets Ward 315 Old Dunham Bridge Rd Greenville, SC 29611	0.02 acres 1/63 of 1.46 acres	0.0290%
(a.1.7) Retha E. Martin 995 County Rd 488 Stephenville, TX 76401	0.02 acres 1/63 of 1.46 acres	0.0290%
(b) Burt R. Ward Heirs, Devisees, Successors or Assigns		
(b.1) Irene S. Adkins	<i>Conveyed 11/19/1970 by DB 197/315</i>	
(b.1.1) Thomas Lloyd Ward Heirs, Devisees, Successors or Assigns		
(b.1.1.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.16 acres 1/9 of 1.46 acres	0.2028%
(c) Ben Franklin Ward	<i>Deceased - No issue</i>	
(d) Exie Ward & R.R. Strickland	<i>Conveyed 9/20/1967 by DB 180/546</i>	
(d.1) Gene A. & Barbara J. Meadcws 2081 Airy Circle Henrico, VA 23238	0.16 acres 1/9 of 1.46 acres	0.2028%
(e) Reba Ward Pericelli	<i>Conveyed 4/6/1970 by DB 178/379</i>	
(e.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(e.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(e.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(e.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(f) Ellen Ward Taylor	<i>Conveyed 7/3/1968 by DB 187/66</i>	
(f.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(f.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(f.1.1.1) Brenda & David Horton PO Bcx 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(f.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(g) Dennis Ward	<i>Conveyed 4/6/1967 by DB 178/381</i>	
(g.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(g.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(g.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%

Exhibit B
Unit J-32
VGOB# 17-0117-4106
List of all Owners/Claimants

	Acres in Unit	Percent of Unit
(g.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(h) Bethel Prater (aka Rebecca Ward)	<i>Conveyed 4/6/1967 by DB 178/383</i>	
(h.1) Foyster L. Cole Heirs, Deviseses Successors or Assigns		
(h.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(h.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(h.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.08 acres 1/18 of 1.46 acres	0.1014%
(i) Evelyn C. Stevenson	<i>Conveyed 4/6/1967 by DB 178/383</i>	
(i.1) Thomas Lloyd Ward Heirs, Deviseses, Successors or Assigns		
(i.1.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.16 acres 1/9 of 1.46 acres	0.2028%
(j) Thomas Lloyd Ward Heirs, Deviseses, Successors or Assigns		
(j.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.16 acres 1/9 of 1.46 acres	0.2028%
<u>Tract #7, 0.15 Acres</u>		
(1) Norfolk Southern Railway Company Pocahontas Land Corporation P. O. Box 1517 Bluefield, WV 24701	0.15 acres	0.1875%
<u>Tract #8, 0.17 Acres</u>		
(1) Buchanan Mining Company LLC, et al <i>Big Vein Tr. 141 (394.75 Acre Tract)</i>	0.17 acres	0.2125%
(a) Yukon Pocahontas Coal Company P.O. Box 187 Tazewell, VA 24651	0.09 acres 1/2 of 0.17 acres	0.1063%
(b) Buchanan Coal Company P.O. Box 187 Tazewell, VA 24651	0.02 acres 1/9 of 0.17 acres	0.0236%
(c) Sayers-Pocahontas Coal Company P.O. Box 187 Tazewell, VA 24651	0.01 acres 1/18 of 0.17 acres	0.0118%
(d) Highland Resources, Inc/ North American Resources, Corp. 5 Concourse Parkway, Suite 1650 Atlanta, GA 30328	0.06 acres 1/3 of 0.17 acres	0.0708%

Note: Plum Creek Timberlands retained their CBM interest, there is no conflict. The royalty for (d) is to be paid to Plum Creek.
Oil & Gas Estates leased by Cities Service Oil & Gas Corporation

Exhibit B-3
Unit J-32
Docket #VGOB 17-0117-4106
List of all Unleased Owners/Claimants

	Acres in Unit	Percent of Unit
II. OIL & GAS OWNERSHIP		
<u>Tract #4, 0.91 Acres</u>		
(1) Barbara & Gene Meadows, et vir 3900 Midlothian Ave Tpk Richmond, VA 23224-1324	0.91 acres	1.1375%
<u>Tract #6, 1.46 Acres</u>		
(1) David S. Horton, et al	1.46 acres	1.8250%
(a) Lydia Ward Heirs, Devisees, Successors or Assigns		
(a.1) Hufford Ward Heirs, Devisees, Successors or Assigns		
(a.1.1) Alma Cline PO Box 660 Raven, VA 24639	0.023 acres 1/63 of 1.46 acres	0.0290%
(a.1.2) Myrville Lester PO Box 561 Doran, VA 24612	0.023 acres 1/63 of 1.46 acres	0.0290%
(a.1.3) Phyllis Ball 4133 McMinnville Hwy Sparta, TN 38583	0.023 acres 1/63 of 1.46 acres	0.0290%
(a.1.4) Loeann Ward Keaton Heirs, Devisees, Successors or Assigns (1/63)		
(a.1.4.1) Donald Terry Keaton 500 County Rd 4820 DeLeon, TX 76444	0.008 acres 1/189 of 1.46 acres	0.0097%
(a.1.4.2) Donna Cindy Stiltner 180 Beverly Hollow Rd Wallace, WV 26448	0.008 acres 1/189 of 1.46 acres	0.0097%
(a.1.4.3) Kyle "Bo" Ward PO Box 1134 Vansant, VA 24656	0.008 acres 1/189 of 1.46 acres	0.0097%
(a.1.5) Kyle Ernest Ward Heirs, Devisees, Successors or Assigns		
(a.1.5.1) Eileen Ward PO Box 2934 Lebanon, VA 24266	0.023 acres 1/63 of 1.46 acres	0.0290%
(a.1.6) Skeets Ward 315 Old Dunham Bridge Rd Greenville, SC 29611	0.023 acres 1/63 of 1.46 acres	0.0290%
(a.1.7) Retha E. Martin 995 County Rd 488 Stephenville, TX 76401	0.023 acres 1/63 of 1.46 acres	0.0290%
(b) Burt R. Ward Heirs, Devisees, Successors or Assigns		
(b.1) Irene S. Adkins	<i>Conveyed 11/19/1970 by DB 197/315</i>	

Exhibit B-3
Unit J-32
Docket #VGOB 17-0117-4106
List of all Unleased Owners/Claimants

	Acres in Unit	Percent of Unit
(b.1.1) Thomas Lloyd Ward Heirs, Devisees, Successors or Assigns		
(b.1.1.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.162 acres 1/9 of 1.46 acres	0.2028%
(c) Ben Franklin Ward	<i>Deceased - No issue</i>	
(d) Exie Ward & R.R. Strickland	<i>Conveyed 9/20/1967 by DB 180/546</i>	
(d.1) Gene A. & Barbara J. Meadows 2081 Airy Circle Henrico, VA 23238	0.162 acres 1/9 of 1.46 acres	0.2028%
(e) Reba Ward Pericelli	<i>Conveyed 4/6/1970 by DB 178/379</i>	
(e.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(e.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(e.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.081 acres 1/18 of 1.46 acres	0.1014%
(e.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.081 acres 1/18 of 1.46 acres	0.1014%
(f) Ellen Ward Taylor	<i>Conveyed 7/3/1968 by DB 187/66</i>	
(f.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(f.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(f.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.081 acres 1/18 of 1.46 acres	0.1014%
(f.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.081 acres 1/18 of 1.46 acres	0.1014%
(g) Dennis Ward	<i>Conveyed 4/6/1967 by DB 178/381</i>	
(g.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		
(g.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(g.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.081 acres 1/18 of 1.46 acres	0.1014%
(g.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.081 acres 1/18 of 1.46 acres	0.1014%
(h) Bethel Prater (aka Rebecca Ward)	<i>Conveyed 4/6/1967 by DB 178/383</i>	
(h.1) Foyster L. Cole Heirs, Devisees Successors or Assigns		

Exhibit B-3
 Unit J-32
 Docket #VGOB 17-0117-4106
 List of all Unleased Owners/Claimants

	Acres in Unit	Percent of Unit
(h.1.1) Nancy Cole	<i>Conveyed 6/5/1979 by DB 265/791</i>	
(h.1.1.1) Brenda & David Horton PO Box 459 Richlands, VA 24641	0.081 acres 1/18 of 1.46 acres	0.1014%
(h.1.1.2) Brenda & David Horton, T/E PO Box 459 Richlands, VA 24641	0.081 acres 1/18 of 1.46 acres	0.1014%
(i) Evelyn C. Stevenson	<i>Conveyed 4/6/1967 by DB 178/383</i>	
(i.1) Thomas Lloyd Ward Heirs, Devisees, Successors or Assigns		
(i.1.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.162 acres 1/9 of 1.46 acres	0.2028%
(j) Thomas Lloyd Ward Heirs, Devisees, Successors or Assigns		
(j.1) Olga E. Ward PO Box 2 Pilgrims Knob, VA 24634	0.162 acres 1/9 of 1.46 acres	0.2028%
<u>UNLEASED OIL & GAS OWNERS:</u>		
	Acres in Unit	2.3468
	Percentage of Unit	2.9625%

Company: CNX Gas Company LLC

Virginia Gas And Oil Template -- Estimated Authorization For Expenditure (AFE)

AFE #	N/A	Property #	N/A	Version #	
Well Name:	J32	Field:	Oakwood	Completed By:	R.E. Station
Location:	Tazewell County	Operator:	CNX Gas Company LLC	Date:	12/05/2016
Expected Pay Zones:	coal seams below Tiller Incl. Poca 3 and Squire	Estimated Total Depth:	1,600 ft	AAPG Class:	CBM
Proposed Work:	To drill, complete, and produce	Participant(s):	N/A	W.I.	

Gen	Sub	Description	Casing Point	Completion	Total Cost
		Leasehold Costs	\$0	\$0	\$0
		Permit / Title Opinion / Survey / Insurance	\$5,300	\$0	\$5,300
		Building Location	\$50,000	\$0	\$50,000
		Roads / Stone / Culverts	\$36,000	\$0	\$36,000
		Surface Damages	\$0	\$0	\$0
		Drilling - Footage	\$45,000	\$0	\$45,000
		Drilling - Mobilization	\$0	\$0	\$0
		Drilling - Dayrate	\$0	\$0	\$0
		Mud & Chemicals (Drilling)	\$0	\$0	\$0
		Fuel	\$0	\$0	\$0
		Cement Surface casing	\$2,000	\$0	\$2,000
		Cement Intermediate casing	\$5,500	\$0	\$5,500
		Open Hole Logging & Testing	\$3,800	\$0	\$3,800
		Trucking / Dozer (Drilling)	\$0	\$0	\$0
		Rental Tools & Equipment (Drilling)	\$0	\$0	\$0
		Drilling - Bits	\$0	\$0	\$0
		Technical Supervisor (Drilling)	\$0	\$0	\$0
		Fresh Water Hauling (Drilling)	\$0	\$0	\$0
		Overhead Rate	\$0	\$0	\$0
		Misc. & Contingencies	\$0	\$3,000	\$3,000
		Location Rds/Stone/Culverts	\$0	\$0	\$0
		Trucking / Dozer (Completion)	\$0	\$0	\$0
		Technical Supervisor (Completion)	\$0	\$0	\$0
		Cased Hole Logging / Perforating	\$0	\$0	\$0
		Stimulation / Fracturing	\$0	\$82,000	\$82,000
		Completion Rig	\$0	\$0	\$0
		Reclamation & Damages	\$0	\$0	\$0
		Haul Pit Water / Disposal	\$0	\$0	\$0
		Cement Production Casing	\$0	\$0	\$0
		Rental Tools & Equipment (Completion)	\$0	\$0	\$0
		Fresh Water Hauling (Completion)	\$0	\$0	\$0
		Roustabout Labor	\$0	\$3,800	\$3,800
		TOTAL INTANGIBLES	\$147,600	\$88,800	\$236,400

Code	Code	Description	Casing Point	Completion	Total Cost
		13 3/8" Conductor	75 Ft	\$0	\$7,500
		9 5/8" 26 lb/ft LS Surface Csg	0 Ft	\$0	\$0
		7" 19 lb/ft LS Intermediate Csg	150 Ft	\$1,775	\$1,775
		4 1/2" 9.5 lb/ft M-65 Production Csg	1,450 Ft	\$10,875	\$10,875
		4 1/2" 10.5 lb/ft M-65 Production Csg	20 Ft	\$1,200	\$1,200
		2-3/8" 4.7 lb/ft J55 8rd Production Tubing	1,500 Ft	\$0	\$10,905
		Wellhead Equipment / Fittings	\$0	\$6,200	\$6,200
		Tank Battery	\$0	\$0	\$0
		Separator / Heater / Treater	\$0	\$15,000	\$15,000
		Gas Lift Equipment	\$0	\$0	\$0
		Rods / Stuffing Box	\$0	\$13,000	\$13,000
		Downhole Pump	\$0	\$0	\$0
		Pumping Unit / Motor	\$0	\$11,000	\$11,000
		SS EQT-Packr,PF,FC,NIP	\$0	\$0	\$0
		Valves & Fittings	\$0	\$0	\$0
		Flow Line labor/material	\$0	\$5,000	\$5,000
		Sales line labor/mat/row	\$0	\$5,000	\$5,000
		TOTAL TANGIBLES	\$21,350	\$66,105	\$87,455
		GRAND TOTAL WELL COST	\$168,950	\$154,905	\$323,855
153	115	Plugging & Abandonment	\$25,000		
		Production Costs :	\$323,855	Dry Hole Costs :	\$193,950

Prepared by: *Bob Stator* Title *Point Agent* Date *12/9/16*

THIS IS AN ESTIMATE OF PROJECTED WELL DRILLING, COMPLETION, EQUIPMENT AND PIPELINE COSTS. THESE ESTIMATES ARE PROJECTIONS ONLY AND ACTUAL BILLED COSTS MAY VARY FROM WELL TO WELL DEPENDING UPON ACTUAL FINAL DEPTH AND OTHER FACTORS INCLUDING, BUT NOT LIMITED TO, SEASONAL MATERIAL COSTS, WEATHER CONDITIONS, AND UNFORESEEN RIGHT-OF-WAY PROBLEMS.

Company: CNX Gas Company LLC

Virginia Gas And Oil Template -- Estimated Authorization For Expenditure (AFE)

AFE #	N/A	Property #	N/A	Version #	
Well Name:	J32A	Field:	Oakwood	Completed By:	R.E. Staton
Location:	Tazewell County	Operator:	CNX Gas Company LLC	Date:	12/05/2016
Expected Pay Zones:	coal seams below Tiller incl; Poca 3 and Squire	Estimated Total Depth:	1,800 ft	AAPG Class:	CBM
Proposed Work:	To drill, complete, and produce	Participant(s):	N/A	W.I.	

Gen	Sub	Description	Casing Point	Completion	Total Cost
		Leasehold Costs	\$0	\$0	\$0
		Permit / Title Opinion / Survey / Insurance	\$5,300	\$0	\$5,300
		Building Location	\$50,000	\$0	\$50,000
		Roads / Stone / Culverts	\$26,000	\$0	\$26,000
		Surface Damages	\$0	\$0	\$0
		Drilling - Footage	\$45,000	\$0	\$45,000
		Drilling - Mobilization	\$0	\$0	\$0
		Drilling - Dayrate	\$0	\$0	\$0
		Mud & Chemicals (Drilling)	\$0	\$0	\$0
		Fuel	\$0	\$0	\$0
		Cement Surface casing	\$2,000	\$0	\$2,000
		Cement Intermediate casing	\$5,500	\$0	\$5,500
		Open Hole Logging & Testing	\$3,800	\$0	\$3,800
		Trucking / Dozer (Drilling)	\$0	\$0	\$0
		Rental Tools & Equipment (Drilling)	\$0	\$0	\$0
		Drilling - Bits	\$0	\$0	\$0
		Technical Supervision (Drilling)	\$0	\$0	\$0
		Fresh Water Hauling (Drilling)	\$0	\$0	\$0
		Overhead Rate	\$0	\$0	\$0
		Misc. & Contingencies	\$0	\$3,000	\$3,000
		Location Rds/Stone/Culverts	\$0	\$0	\$0
		Trucking / Dozer (Completion)	\$0	\$0	\$0
		Technical Supervision (Completion)	\$0	\$0	\$0
		Cased Hole Logging / Perforating	\$0	\$0	\$0
		Stimulation / Fracturing	\$0	\$82,000	\$82,000
		Completion Rig	\$0	\$0	\$0
		Reclamation & Damages	\$0	\$0	\$0
		Haul Pit Water / Disposal	\$0	\$0	\$0
		Cement Production Casing	\$0	\$0	\$0
		Rental Tools & Equipment (Completion)	\$0	\$0	\$0
		Fresh Water Hauling (Completion)	\$0	\$0	\$0
		Roustabout Labor	\$0	\$3,800	\$3,800
		TOTAL INTANGIBLES	\$137,600	\$88,800	\$226,400

INTERNETABLES

TANGIBLES

Code	Code		75 Ft	0 Ft	0 Ft	Casing Point	Completion	Total Cost
		13 3/8" Conductor	75 Ft	0 Ft	0 Ft	\$7,500	\$0	\$7,500
		9 5/8" 26 lb/ft LS Surface Csg	0 Ft	0 Ft	0 Ft	\$0	\$0	\$0
		7" 19 lb/ft LS Intermediate Csg	0 Ft	0 Ft	0 Ft	\$0	\$0	\$0
		4 1/2" 9.5 lb/ft M-65 Production Csg	1,500 Ft	0 Ft	0 Ft	\$11,250	\$0	\$11,250
		4 1/2" 10.5 lb/ft M-65 Production Csg	20 Ft	0 Ft	0 Ft	\$1,200	\$0	\$1,200
		2-3/8" 4.7 lb/ft J55 8rd Production Tubing	1,550 Ft	0 Ft	0 Ft	\$0	\$11,269	\$11,269
		Wellhead Equipment / Fittings	\$0	\$0	\$0	\$0	\$6,200	\$6,200
		Tank Battery	\$0	\$0	\$0	\$0	\$0	\$0
		Separator / Heater / Treater	\$0	\$0	\$0	\$0	\$15,000	\$15,000
		Gas Lift Equipment	\$0	\$0	\$0	\$0	\$0	\$0
		Rods / Stuffing Box	\$0	\$0	\$0	\$0	\$13,000	\$13,000
		Downhole Pump	\$0	\$0	\$0	\$0	\$0	\$0
		Pumping Unit / Motor	\$0	\$0	\$0	\$0	\$11,000	\$11,000
		SS EQT-Packer, PF, FC, NIP	\$0	\$0	\$0	\$0	\$0	\$0
		Valves & Fittings	\$0	\$0	\$0	\$0	\$0	\$0
		Flow Line labor/material	\$0	\$0	\$0	\$0	\$5,000	\$5,000
		Sales line labor/material	\$0	\$0	\$0	\$0	\$5,000	\$5,000
		TOTAL TANGIBLES	\$19,950	\$0	\$0	\$19,950	\$66,469	\$86,419
		GRAND TOTAL WELL COST	\$157,550	\$155,269	\$155,269	\$25,000	\$192,550	\$312,819
153	115	Plugging & Abandonment				\$25,000		\$25,000

Production Costs : \$312,819 Dry Hole Costs : \$192,550

Prepared by: Bert Staton Title Permit Agent Date 12/9/16

THIS IS AN ESTIMATE OF PROJECTED WELL DRILLING, COMPLETION, EQUIPMENT AND PIPELINE COSTS. THESE ESTIMATES ARE PROJECTIONS ONLY AND ACTUAL BILLED COSTS MAY VARY FROM WELL TO WELL DEPENDING UPON ACTUAL FINAL DEPTH AND OTHER FACTORS INCLUDING, BUT NOT LIMITED TO, SEASONAL MATERIAL COSTS, WEATHER CONDITIONS, AND UNFORESEEN RIGHT-OF-WAY PROBLEMS.

N/A

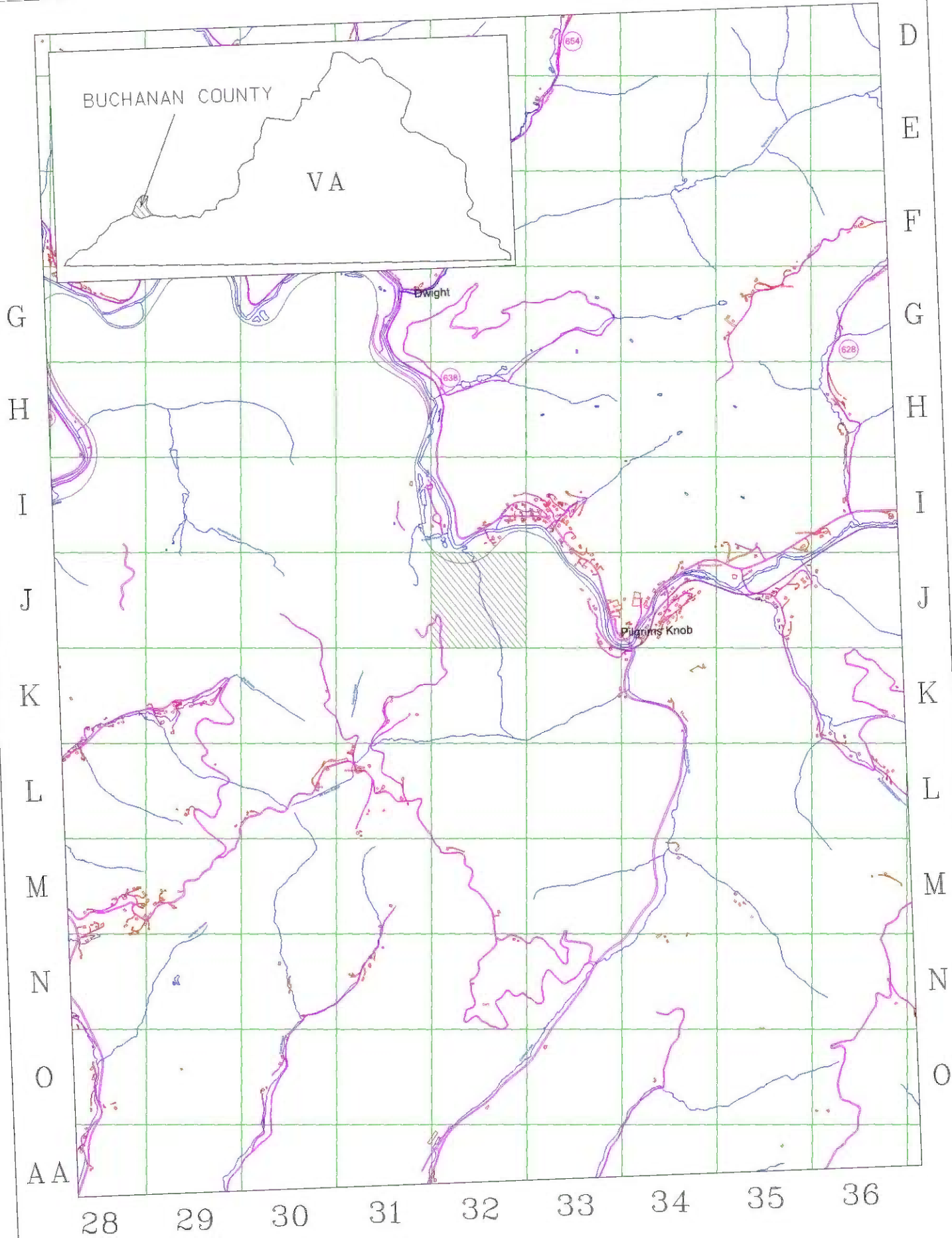


EXHIBIT A1
UNIT J-32
VGOB 16-0117-4106
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