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

April 16, 2015

CNX GAS COMPANY LLC
POST OFFICE BOX 1248
JANE LEW, WV 26378

Re: Permit Modification Approval for API Number 1706578 , Well #: OXFD13EHS
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,

for Gene Smith

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

4701706578 MOD

CONSOL ENERGY

Kelly Eddy
Permitting Supervisor
P.O. Box 1248
Jane Lew, WV 26378
(304) 884-2131
CNX GAS

April 9, 2015

West Virginia Department of Environmental Protection
Office of Oil & Gas
Attn: Laura Adkins
601 57th Street, SE
Charleston, WV 25304-2345

RE: OXFD13CHS - API# 47-017-06576
OXFD13DHS - API# 47-017-06577
OXFD13EHS - API# 47-017-06578

Dear Laura,

Enclosed, please find modifications for the OXFD13CHS – OXFD13EHS to extend the laterals due to additional leasing being obtained. I have attached updated casing plans, mylar plats, lease breakdowns, and road letters.

We are extending the length of each lateral as follows:

OXFD13CHS/API# 47-017-06576: Extending 1,194.92' more
OXFD13DHS/API# 47-017-06577: Extending 3,624.55' more
OXFD13EHS/API# 47-017-06578: Extending 3,168.22' more

Should you need any further information, please contact me at (304) 884-2131 or by email at KellyEddy@consolenergy.com. Thank you!

RECEIVED
Office of Oil and Gas
APR 14 2015
WV Department of
Environmental Protection

Sincerely,

Kelly Eddy

Kelly Eddy

4701706578 MOD

WW-6B
(9/13)

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

1) Well Operator:	CNX Gas Company LLC	494458046	Doddridge	Southwest	New Milton
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: OXFD13EHS Well Pad Name: OXFD13HS

3) Farm Name/Surface Owner: I.L. Morris Public Road Access: Co. Rt. 40

4) Elevation, current ground: 1178' Elevation, proposed post-construction: 1152'

5) Well Type (a) Gas ■ Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow ■ Deep _____
Horizontal ■

6) Existing Pad: Yes or No NO

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Target - Marcellus, Depth - 6950', Thickness - 60', Pressure - 2500#

8) Proposed Total Vertical Depth: 7050'

9) Formation at Total Vertical Depth: Onondaga

10) Proposed Total Measured Depth: 15115'

11) Proposed Horizontal Leg Length: 5929.09'

12) Approximate Fresh Water Strata Depths: 50', 600'

13) Method to Determine Fresh Water Depths: Offset Well

14) Approximate Saltwater Depths: 1250', 1955'

15) Approximate Coal Seam Depths: 600'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☐ No ☑

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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WV Department of Environmental Protection

WW-6B
(9/13)

18) **CASING AND TUBING PROGRAM**

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	N	L.S.	81.3#	100'	100'	Grout to surface w/ Class A type cement
Fresh Water	13 3/8"	N	J-55	54.5#	1050'	1050'	CTS w/ Class A Type Cement
Coal							
Intermediate	9 5/8"	N	J-55	36#	2700'	2700'	CTS w/ Class A Type Cement
Production	5 1/2"	N	P-110	20#	15,115'	15,115'	2200 cu. ft. w/ 50/50 POZ Lead & Class A
Tubing	2 3/8"	N	J-55	4.7#	7450'	7450'	
Liners							

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	0.438	2110	Class A Type	1.18
Fresh Water	13 3/8"	17 1/2"	0.380	2730	Class A Type	1.39
Coal						
Intermediate	9 5/8"	12 3/8"	0.352	3520	Class A Type	1.18
Production	5 1/2"	8 3/4" & 8 1/2"	0.361	14360	Class A Type	1.26
Tubing	2 3/8"	5 1/2" Csg	0.190	7700	.....	.....
Liners						

PACKERS

Kind:	None			
Sizes:	None			
Depths Set:	None			

WW-6B
(9/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate new horizontal Marcellus well. Well to be drilled to a TMD of 15,115'. Well to be drilled to a TVD of 6830', formation at TVD - Onondaga Group. The well bore will not be drilled any deeper than 100' into the Onondaga Group, nor will there be any perforation, stimulation, or production of any formations below the target formation. Well will be plugged back to an approximate depth of 6000' (approximate due to exact kick off point being unknown). Plugging back will be done using the displacement method and Class A Type cement. A solid cement plug will be set from TD to KOP. If an unexpected void is encountered, plan will be to set casing at a minimum of 30' past void and cement to surface with approved Class A type cement.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. Max Pressure - 9500 psi. Max Rate - 100 bbl/min.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.4 Acres

22) Area to be disturbed for well pad only, less access road (acres): 10.6 Acres

23) Describe centralizer placement for each casing string:

Conductor - No centralizers used. Fresh Water & Coal - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface. Intermediate - Bow spring centralizers one on the first two joints and every forth joint until inside surface casing. Production - Rigid bow spring centralizer on first joint then every 2 casing joints (free floating) through the lateral and the curve. (Note: cementing the 5 1/2" casing completely in open hole lateral and curve.)

24) Describe all cement additives associated with each cement type:

Conductor - 2% CaCl2. Fresh Water/Coal - 2% CaCl2. Intermediate - 2% CaCl2. Production - 2.6% Cement extender, 0.7% Fluid loss additive, 0.5% High Temperature Retarder, 0.2% Friction Reducer

25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/ air and casing ran in air. Apart from insuring the hole is clean via air circulation at TD, there are no other conditioning procedures. Fresh Water/Coal - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom, the casing shoe will be cleared with fresh water and gel prior to cementing. Intermediate - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom, the casing shoe will be cleared with fresh water and gel prior to cementing. (Note: Drilling soap may be utilized if the hole gets wet/damp during the drilling of all air holes with the exception of the conductor). Production - The hole will be drilled with synthetic oil base mud and once at TD the hole is circulated at a drilling pump rate until the hole is clean. Once casing is ran the hole is circulated for a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

Well is located on topo map 14,400 feet south of Latitude: 39 ° 12 ' 30 "

Well is located on topo map 11,109 feet west of Longitude: 80 ° 42 ' 30 "

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83
N:4335538.88
E:521810.93
NAD27, WV NORTH
N:246014.900
E:1646253.200
LAT/LON DATUM-NAD83
LAT:39.168797
LON:-80.747517

APPROX. LANDING POINT
UTM 17-NAD83
N:4335940.36
E:522218.15
NAD27, WV NORTH
N:247310.100
E:1647611.500
LAT/LON DATUM-NAD83
LAT:39.172406
LON:-80.742789

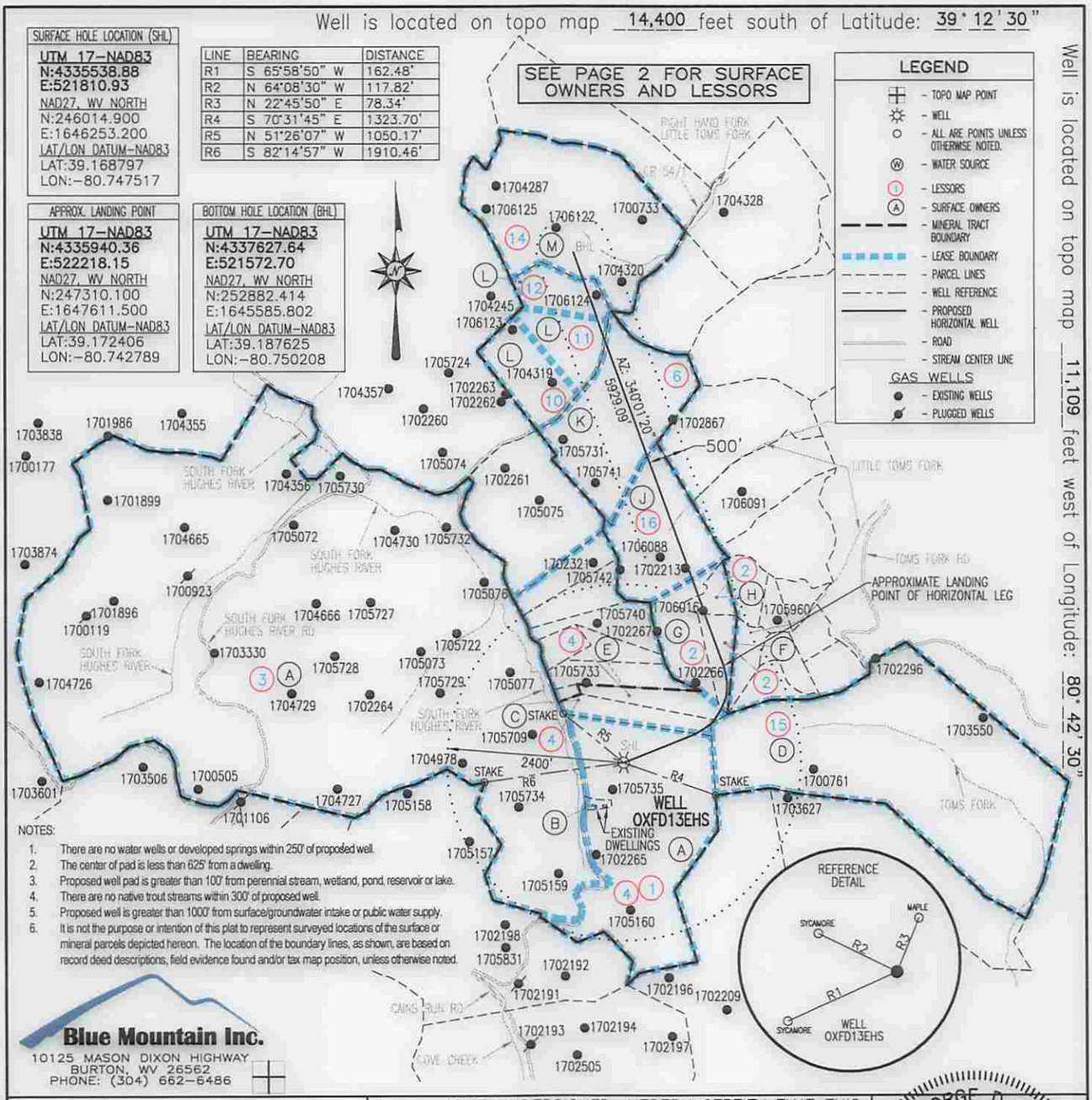
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83
N:4337627.64
E:521572.70
NAD27, WV NORTH
N:252882.414
E:1645585.802
LAT/LON DATUM-NAD83
LAT:39.187625
LON:-80.750208

LINE	BEARING	DISTANCE
R1	S 65°58'50" W	162.48'
R2	N 64°08'30" W	117.82'
R3	N 22°45'50" E	78.34'
R4	S 70°31'45" E	1323.70'
R5	N 51°26'07" W	1050.17'
R6	S 82°14'57" W	1910.46'

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

LEGEND
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- WATER SOURCE
- LESSORS
- SURFACE OWNERS
- MINERAL TRACT BOUNDARY
- LEASE BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE

GAS WELLS
- EXISTING WELLS
- PLUGGED WELLS



NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
2. The center of pad is less than 625' from a dwelling.
3. Proposed well pad is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

FILE #: OXFD13EHS

DRAWING #: OXFD13EHS

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: [signature]

R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX LICENSED No. 2000 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: APRIL 2, 2015

OPERATOR'S WELL #: OXFD13EHS

API WELL #: 47 (STATE) 17 (COUNTY) 06578 NOO (PERMIT)

Well Type: [ ] Oil [ ] Waste Disposal [X] Production [ ] Deep
[X] Gas [ ] Liquid Injection [ ] Storage [X] Shallow

WATERSHED: SOUTH FORK HUGHES RIVER ELEVATION: 1,152.4'±

COUNTY/DISTRICT: DODDRIDGE / SOUTHWEST QUADRANGLE: NEW MILTON, WV 7.5'

SURFACE OWNER: I. L. (IKE) MORRIS ACREAGE: 6603.75±

OIL & GAS ROYALTY OWNER: S.W. STOUT ET AL ACREAGE: 1349.310±

DRILL [X] CONVERT [ ] DRILL DEEPER [ ] REDRILL [ ] FRACTURE OR STIMULATE [ ]

PLUG OFF OLD FORMATION [ ] PERFORATE NEW FORMATION [ ] PLUG & ABANDON [ ]

CLEAN OUT & REPLUG [ ] OTHER CHANGE [ ] (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,050'± TMD: 15,115'±

WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT MATTHEW IMRICH

Address P.O. BOX 1248 Address P.O. BOX 1248

City JANE LEW State WV Zip Code 26378 City JANE LEW State WV Zip Code 26378

OXFD13EHS
PAGE 2 OF 2

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UTM 17-NAD83
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NAD27, WV NORTH
N:252882.414
E:1645585.802
LAT/LON DATUM-NAD83
LAT:39.187625
LON:-80.750208

	SURFACE OWNER	DIST-TM/PAR
A	I. L. (IKE) MORRIS	7-10/2
B	JERRY L. & SHARON LEGGETT (SURV)	7-15/3.1
C	TYLER GARRETT BUNTING C/O LENORA BUNTING	7-15/1
D	I. L. (IKE) MORRIS	6-18/2
E	LINEY MCKINNEY	7-15/1.6
F	CHARLES ALAN SCHNEIDER C/O CHARLES SCHNEIDER	6-18/1.5
G	CHARLES ALAN SCHNEIDER	6-18/1.6
H	CHARLES A. SCHNEIDER	6-18/1.4
J	DEBRA KAY HUDAK	6-14/17
K	DEBRA KAY HUDAK	7-11/6
L	KEY OIL COMPANY	7-11/1
M	GREGORY B. & DEBRA A. REDIFER (SURV)	6-14/1

PARCEL	LESSOR
1,3,4, 15&16	S.W. STOUT, ET AL
2	CLARENCE E. SIGLEY, TRUSTEE
6	J.P. MORGAN CHASE BANK, N.A, TRUSTEE OF S.A. SMITH & C. BURKE MORRIS, TRUST
	J.P. MORGAN CHASE BANK, N.A, TRUSTEE OF THE WILL E. MORRIS, TRUST
	DORIS J. FLINT
	STEVEN GERARD HORAK
	BETTY BOOTH RADER
	RICHARD E. RADER
	WAYNE E. RADER, ET UX
	PAMELA K. CORNELL
	DOUGLAS SMITH, INDIVIDUALLY & AS CO-EXECUTOR OF THE ESTATE OF FREDA WYLENE SMITH, DECEASED, & PATRICIA SMITH, HIS WIFE
	DOUGLAS SMITH, INDIVIDUALLY & AS CO-EXECUTOR OF THE ESTATE OF FREDA WYLENE SMITH, DECEASED & JO BETH SMITH, HIS WIFE
	PAUL MANLEY
	DENISE HOWARD, ET VIR
	WILLIAM GREENLEAF, ET UX
	ED HUDAK
	PAULINE SUMMERS
	GENEVIEVE SUMMERS
	MARY LOU GEISLER, AIF FOR KATHLEEN SUMMERS
	HUBERT C. GAINER
	M.L. HARDING
	PEGGY YOUNG BATTEN
	CLARENCE F. GAINER
	JACQUELINE GAINER
	HERBERT A. DARNELL
	WILLIAM GAINER
	ROBERT GAINER
	LUCILLE BOLTE
	STEVE BOLTE
	KATHRYN SUMMERS
	CECIL ROBINSON
10,11, 12&14	J.P. MORGAN CHASE BANK, N.A, TRUSTEE OF S.A. SMITH & C. BURKE MORRIS, TRUST
	J.P. MORGAN CHASE BANK, N.A, TRUSTEE OF THE WILL E. MORRIS, TRUST
	CHAD W. JOHNSON
	JAMES D. POWELL, II
	CYNTHIA FAYE POWELL
	LINDA FREDERICK
	LESLIE FREDERICK
	EMMANUEL LUTHERAN CHURCH
	VADA BARNETT
	JO ANN B. WATERS, ET VIR.
	UDELLA MAE PROUDFOOT BARNETT
	LESLIE FREDERICK, AIF FOR BETTY J. BARNETT
	GENEVIEVE STOUT SUMMERS
	KATHLEEN C. SUMMERS, BY MARY LOU DEISLER HER AIF
	KATHRYN SUMMERS
	PAULINE SUMMERS

47-017-06578 MOD

APRIL 2, 2015

Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

4701706578 MOD

Attachment - Form WW-6A-1 for Oxford 13 EHS:

Tract ID	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1,3,4,15,16	**S.W. Stout, et al**	**M.G. Zinn**	**1/8**	**11/464**
	M.G. Zinn	The Carter Oil Company	Assignment	14/127
	The Carter Oil Company	Hope Natural Gas Company	Assignment	42/410
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	DB 143/345
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corp	Assignment	135/583
	Consolidated Gas Transmission Corp	CNG Transmission Corp	Merger/Name Change	Harrison Co. AoI 51/795
	CNG Transmission Corp	Dominion Transmission, Inc.	Merger/Name Change	Harrison Co. AoI 58/362
	Dominion Transmission, Inc.	Consol Energy Holdings	Assignment	245/1
	Consol Energy Holdings	Consol Gas Company	Merger/Name Change	DB 292/469
	Consol Gas Company	CNX Gas Company LLC	Merger/Name Change	DB 293/252

Tract ID	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
2	**Clarence E. Sigley, Trustee**	**Clarence E. Sigley, individually**	**1/8**	**270/466**
	Clarence E. Sigley, individually	Antero Resources Appalachian Corporation	Assignment	271/556
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Merger/Name Change	Per WV Secretary of State Website
	Antero Resources Corporation	CNX Gas Company LLC	Assignment	353/257

Tract ID	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
6	**J.P. Morgan Chase Bank, N.A, Trustee of S.A. Smith and C. Burke Morris, Trust**	**CNX Gas Company LLC**	**1/8**	**393/664**
6	**J.P. Morgan Chase Bank, N.A., Trustee of the Will E Morris, Trust**	**CNX Gas Company LLC**	**1/8**	**393/667**
6	**Doris J. Flint, a widow**	**CNX Gas Company LLC**	**1/8**	**394/9**
6	**Steven Gerard Horak, an unmarried person**	**CNX Gas Company LLC**	**1/8**	**394/59**
6	**Betty Booth Rader, a widow**	**CNX Gas Company LLC**	**1/8**	**394/49**
6	**Richard E. Rader, a married man dealing in his sole and separate property**	**CNX Gas Company LLC**	**1/8**	**394/19**
6	**Wayne E. Rader, et ux**	**CNX Gas Company LLC**	**1/8**	**394/44**
6	**Pamela K. Cornell, a widow**	**CNX Gas Company LLC**	**1/8**	**394/54**
6	**Douglas Smith, idividually and as Co-Executor of the Estate of Freda Wylene Smith, deceased, and Patricia Smith, his wife**	**CNX Gas Company LLC**	**1/8**	**394/34**
6	**Donald Smith, idividually and as Co-Executor of the Estate of Freda Wylene Smith, deceased, and Jo Beth Smith, his wife**	**CNX Gas Company LLC**	**1/8**	**394/39**
6	**Paul Manley, a widower**	**CNX Gas Company LLC**	**1/8**	**394/29**
6	**Denise Howard, et vir**	**CNX Gas Company LLC**	**1/8**	**394/24**
6	**William Greenleaf, et ux**	**CNX Gas Company LLC**	**1/8**	**394/14**
6	**Ed Hudak**	**Key Oil Company**	**1/8**	**178/515**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Pauline Summers**	**Key Oil Company**	**1/8**	**179/228**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Genevieve Summers**	**Key Oil Company**	**1/8**	**179/230**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Mary Lou Geisler, AiF for Kathleen Summers**	**Key Oil Company**	**1/8**	**179/232**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272

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WV Department of
Environmental Protection

Tract ID	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
6	**Hubert C. Gainer**	**Key Oil Company**	**1/8**	**179/236**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**M.L. Harding**	**Key Oil Company**	**1/8**	**179/242**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Peggy Young Batten**	**Key Oil Company**	**1/8**	**179/226**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Clarence F. Gainer**	**Key Oil Company**	**1/8**	**179/234**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Jacqueline Gainer**	**Key Oil Company**	**1/8**	**179/224**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Herbert A. Darnell**	**Key Oil Company**	**1/8**	**179/238**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**William Gainer**	**Key Oil Company**	**1/8**	**179/240**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Robert Gainer**	**Key Oil Company**	**1/8**	**179/222**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Lucille Bolte**	**Key Oil Company**	**1/8**	**179/217**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Steve Bolte**	**Key Oil Company**	**1/8**	**179/220**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
6	**Kathryn Summers**	**Key Oil Company**	**1/8**	**380/610**
	Key Oil Company	CNX Gas Company LLC	Assignment	386/574
6	**Cecil Robinson**	**Key Oil Company**	**1/8**	**380/617**
	Key Oil Company	CNX Gas Company LLC	Assignment	386/574

Tract ID	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
10,11,12, 14	**J.P. Morgan Chase Bank, N.A, Trustee of S.A. Smith and C. Burke Morris, Trust**	**CNX Gas Company LLC**	**1/8**	**393/670**
10,11,12, 14	**J.P. Morgan Chase Bank, N.A., Trustee of the Will E Morris, Trust**	**CNX Gas Company LLC**	**1/8**	**393/675**
10,11,12, 14	**Chad W. Johnson, a married man dealing with his sole and separate property**	**CNX Gas Company LLC**	**1/8**	**393/728**
10,11,12, 14	**James D. Powell, II, a married man dealing with his sole and separate property**	**CNX Gas Company LLC**	**1/8**	**394/5**
10,11,12, 14	**Cynthia Faye Powell, an unmarried person**	**CNX Gas Company LLC**	**1/8**	**394/1**
10,11,12, 14	**Linda Frederick, a divorced woman**	**CNX Gas Company LLC**	**1/8**	**380/629**
10,11,12, 14	**Leslie Frederick, a single woman**	**CNX Gas Company LLC**	**1/8**	**380/633**
10,11,12, 14	**Emmanuel Lutheran Church**	**CNX Gas Company LLC**	**1/8**	**380/624**

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Tract ID	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
10,11,12, 14	**Vada Barnett, single**	**Key Oil Company**	**1/8**	**173/320**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
10,11,12, 14	**Jo Ann B. Waters, et vir.**	**Key Oil Company**	**1/8**	**173/327**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
10,11,12, 14	**Udella Mae Proudfoot Barnett**	**Key Oil Company**	**1/8**	**175/432**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
10,11,12, 14	**Leslie Frederick, AIF for Betty J. Barnett, single**	**Key Oil Company**	**1/8**	**173/316**
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
10,11,12, 14	**Genevieve Stout Summers**	**Murvin Oil Company**	**1/8**	**177/623**
	Murvin Oil Company	Key Oil Company	Assignment	178/85
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
10,11,12, 14	**Kathleen C. Summers, by Mary lou Deisler her AIF**	**Murvin Oil Company**	**1/8**	**177/625**
	Murvin Oil Company	Key Oil Company	Assignment	178/85
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
10,11,12, 14	**Kathryn Summers**	**Murvin Oil Company**	**1/8**	**177/627**
	Murvin Oil Company	Key Oil Company	Assignment	178/85
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272
10,11,12, 14	**Pauline Summers**	**Murvin Oil Company**	**1/8**	**177/629**
	Murvin Oil Company	Key Oil Company	Assignment	178/85
	Key Oil Company	Antero Resources Appalachian Corp.	Assignment	256/285
	Antero Resources Appalachian Corp.	CNX Gas Company LLC	Assignment	353/272

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CONSOL ENERGY

April 7, 2015

West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304

RE: CONSOL Energy's proposed OXFD13EHS Well, in Doddridge County, West Virginia
Drilling Under CR 19/11, South Fork Hughes River Road.

To Whom It May Concern:

CONSOL Energy, Inc. (CNX) is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to CNX's right to drill under CR 19/11, South Fork Hughes River Road. Please be advised that according to the title information we have relied on in submitting this application, the State owns no oil and gas rights under said road(s) and/or railroad(s) that CNX has leased said rights from the appropriate parties as set forth on the accompanying Form WW-6A1.

Very truly yours,

Kelly Eddy

Kelly Eddy
Supervisor - Permitting
CONSOL Energy, Inc.