

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, February 25, 2020
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

NORTHEAST NATURAL ENERGY LLC 707 VIRGINIA STREET EAST STE 1200 CHARLESTON, WV 25301

Re: Permit Modification Approval for MCCLELLAN 9H

47-061-01820-00-00

Modified Lateral for a TMD of 23,846'.

NORTHEAST NATURAL ENERGY LLC

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.

If there are any questions, please feel free to contact me at (304) 926-0450

James A. Martin

Chief

Operator's Well Number: MCCLELLAN 9H

Farm Name: ALYCEMARIE MCCLELLAN & MICHELLE D. M@

U.S. WELL NUMBER: 47-061-01820-00-00

Horizontal 6A New Drill

Date Modification Issued: February 25, 2020

Promoting a healthy environment.

API NO. 47061	0	1820	mob
OPERATOR WELL	NO.	McClellan 9H	
Well Pad Name:	McCle	llan	

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

1) Well Operator: North	heast Natural Energy	LLC 49449828	1 Monong	alia Battelle	Mannington
1) 11 on operator.		Operator		District	Quadrangle
2) Operator's Well Num	nber: McClellan 9F	W	ell Pad Name: 🖊	McClellan	
3) Farm Name/Surface	Owner: McClellan	Publ	ic Road Access:	SR 15/7 (Har	vey Run Road)
4) Elevation, current gro	ound: 1,440'	Elevation, pro	posed post-cons	truction: 1,408	3.6'
5) Well Type (a) Gas	<u>X</u> (Oil NA	Underground S	Storage NA	
Other	NA				
(b)If Ga	·	De	ep <u>X</u>		-
	Horizontal X		MAK	1/27/2020	
6) Existing Pad: Yes or	No Yes			•	
Proposed Target Forr Pilot: Oriskany, Horizo		•	-		
8) Proposed Total Vertic	D.:		•		
9) Formation at Total V	ertical Depth: Pilo	t: Oriskany; Horiz	ontai: Marcellu	S 	
10) Proposed Total Mea	sured Depth: 23,	346'			
11) Proposed Horizonta	l Leg Length: 14,	374'			
12) Approximate Fresh	Water Strata Depth	s: 50'; 1,122'			
13) Method to Determin	ne Fresh Water Dept	hs: DRILLERS	OG FROM OF	FSET WELLS	}
14) Approximate Saltwa	ater Depths: 1,820	'; 2,5 ⁷⁰ '			
15) Approximate Coal S	Seam Depths: 190'	1,107'			
16) Approximate Depth	to Possible Void (c	oal mine, karst, ot	ner): NA		
17) Does Proposed well directly overlying or adj			X	_ No	
(a) If Yes, provide Min	ne Info: Name:	Marion County C	coal Company I	Vine	
	Depth:	1,107'			
	Seam:	Pittsburgh			
RECEIVED Office of Oil and Gas	Owner:	Murray Energy (Corporation & C	onsolidation C	coal Company

JAN 2 9 2020

API NO. 47-061 - 0 1820 MOD

OPERATOR WELL NO. McClellan 9H

Well Pad Name: McClellan

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,230'	1,200'	CTS
Coal					NA	NA	
Intermediate	9-5/8"	New	J-55	40	2,680'	2,650'	CTS
Production	5-1/2"	New	P-110	20	23,846'	23,816'	5,645 Cu. Ft.
Tubing	2-3/8"	New	P-110	4.7	NA	8,500'	NA
Liners							

MgK 1/17/2020

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	24"	30"	.375"	415		4,500 psi Grout	NA
Fresh Water	13-3/8"	17 1/2"	.38"	2,760	2,000	Class A	1.23
Coal							
Intermediate	9-5/8"	12 1/4"	.395"	3,950	3,000	Class A	1.3
Production	5-1/2"	8 3/4"	.361"	12,530	9,700	50:50 Poz	1.21
Tubing	2-7/8"	NA	.217"	10,570	3,600	NA	NA
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:	,	

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WW-6B	
(10/14)	

API NO. 47-_061__- O 1820 Mon
OPERATOR WELL NO. McClellan 9H
Well Pad Name: McClellan

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

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,749' TVD/MD. A pilot hole will then be drilled on synthetic based mud to an approximate depth of 8,400' and plugged back with solid cement to the KOP. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,160' TVD / 23,846' MD along a 326 degree azimuth.

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

Multi-stage / high-rate slickwater fracture treatment using various size sands as proppant. First stage will be initiated via pressurization against a burst disc ran in the production casing string or perforated with coiled tubing. Subsequent stages will be perforated with pumped down guns ran on wireline. Individual stages will be isolated with composite frac plugs. Maximum pump rate during any stage will be 110 BPM with a maximum allowable surface pressure of 9,500 PSI. Composite bridge plugs will be set at the end of the last stage to isolate the treated formation.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): N/A
- 22) Area to be disturbed for well pad only, less access road (acres): N/A
- 23) Describe centralizer placement for each casing string:

Surface and intermediate casing strings will have bow spring centralizers placed every third joint (~120') from the shoe joint to surface. Production casing will have rigid body centralizers placed at a minimum of every fourth joint (~160') from TD to surface.

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

Surface string cement will be a Class A + Max 3% bwoc Calcium Chloride Fresh Water blend. Intermediate string cement will be a Class A Cement + Max 3% bwoc Calcium Chloride + Fresh Water. Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.

25) Proposed borehole conditioning procedures:

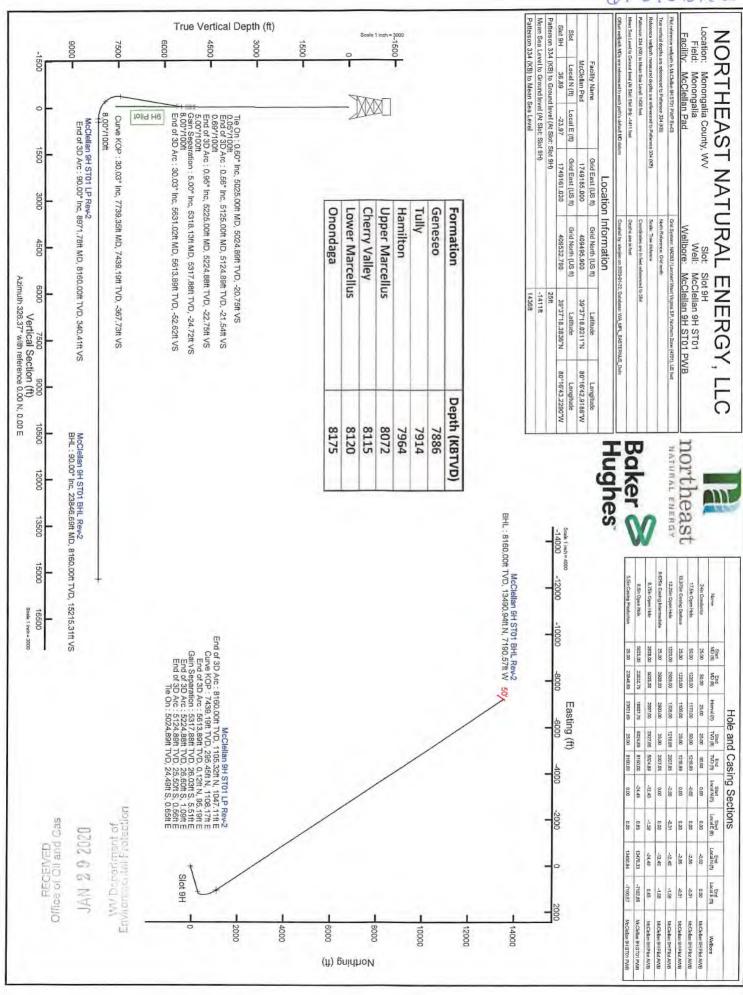
Surface string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Intermediate string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Production string will use a 50.0 bbls SealBond 25 + 1 gal/bbl US-40 + 275 lbs/bbl Barite + 1 gal/bbl SS-2 Spacer @ 13.5 ppg prior to cement.

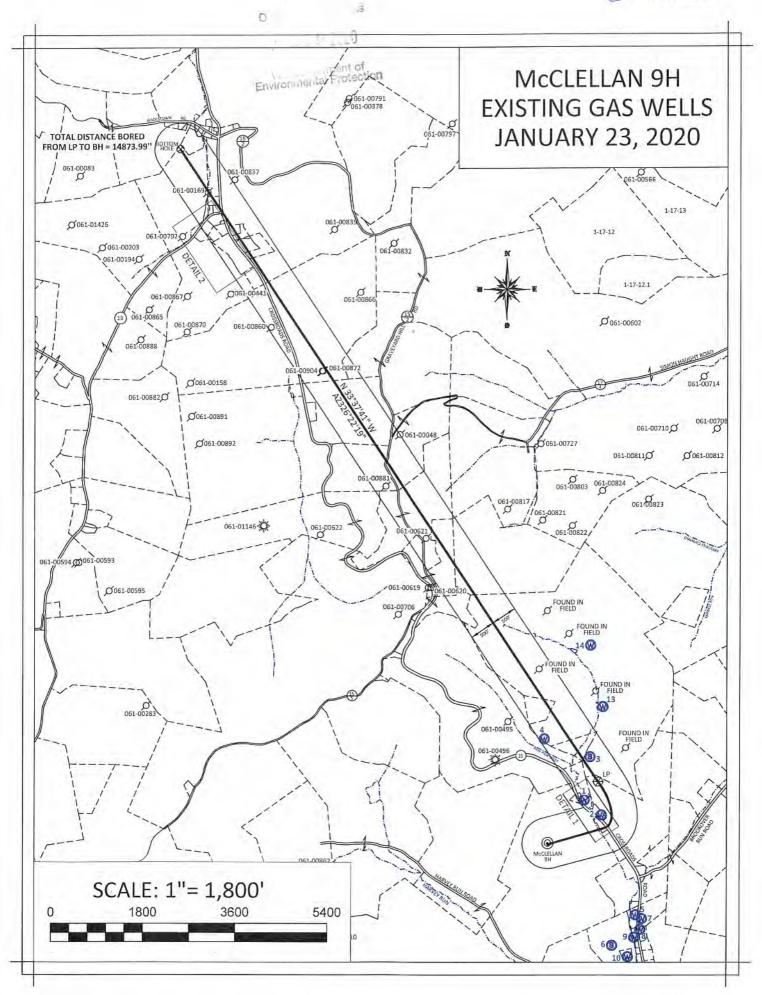
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*Note: Attach additional sheets as needed.

JAN 2 9 2020

Page 3 of 3





		Mc	McClellan 9H Area of Review	ıf Review			
API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	Comments
061-00621	W E Swisher/C Anderson	3	Consolidation Coal Co.	39.638036	-80.287308	1-24-13.1	Plugged 3/27/1981
			Eastern Associated /				
061-00881	John Mason	ΑN	Peabody Coal Company	39.640791	-80.290123	1-24-3	Plugged 9//30/1988
061-00872	NA	NA	NA	39.646774	-80.294799	1-17-9	Plugged - 2/6/1989
061-00904	Joseph S Carrothers	NA	Pennzoil Company	39.646881	-80.294655	1-17-9	Plugged - 2/6/1989
			Eastern Associated /				
061-00860	Joseph S Carrothers	2	Peabody Coal Company	39.649202	-80.298219	1-17-9.1	Plugged - 3/31/1988
FOUND IN							
FIELD	NA	Ą	NA	39.638193	-80.286957	1-24-13.1	NA
FOUND IN							
FIELD	NA	ΑN	NA	39.633644	-80.282461	1-24-20	NA
FOUND IN							
FIELD	NA	AN	NA	39.631099	-80.279404	1-24-20	NA

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JAN 29 2020

WV Department of Environmental Protection

WW-6A	1
(5/13)	

Operator's Well No. McClellan 9H	
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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

see attached

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: Northeast Natural Energy LLC

By:

Hollie Medley =

Its:

Regulatory Manager

Page 1 of 5

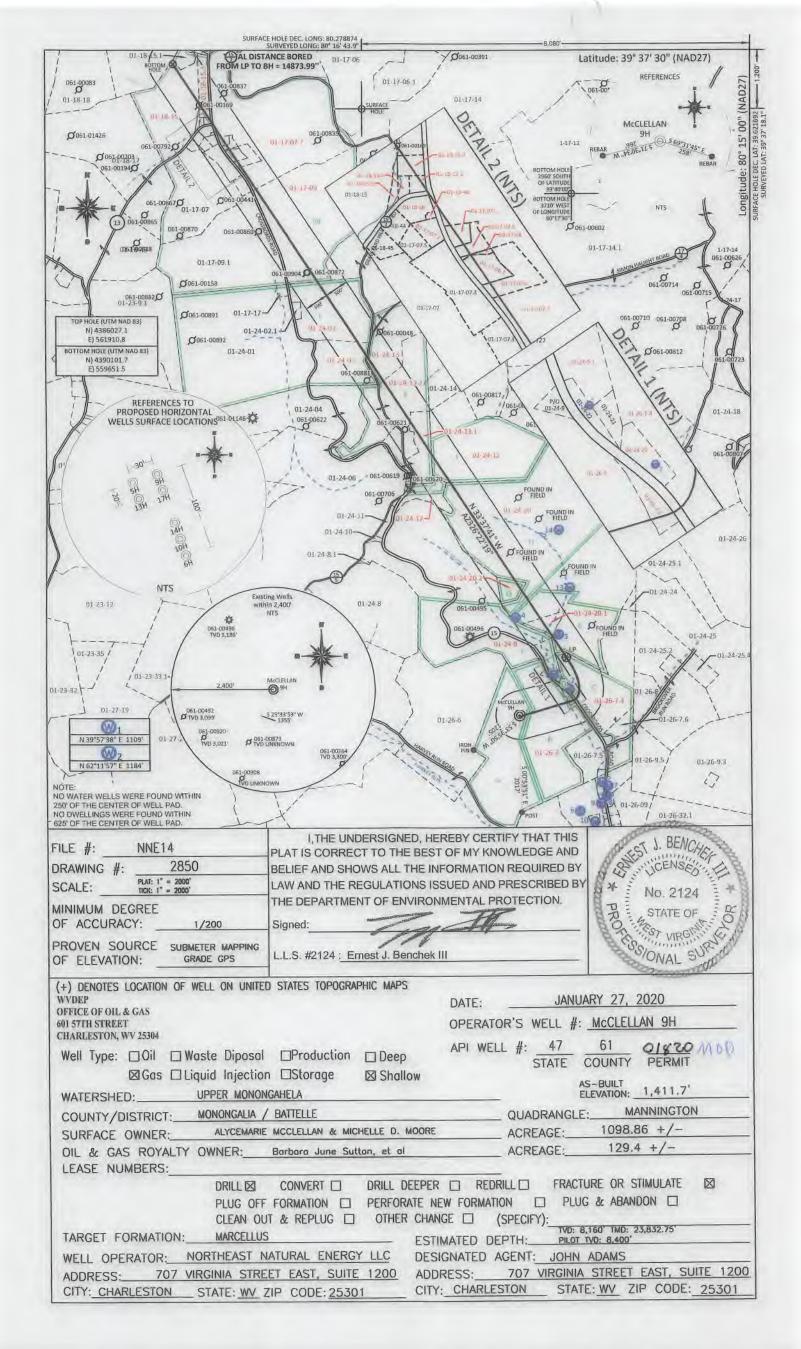
Tract ID	NNE LEASE NUMBER	LESSOR NAME	LESSEE NAME	ROYALTY	BOOK/	PAGE
A	WV 061 004172 001	Barbara June Sutton	Northeast Natural Energy LLC	0.125 or Greater	1560	233
	WV 061 004172 011	Jerry D. Atwood and Shirley L. Atwood	Northeast Natural Energy LLC	0.125 or Greater	1568	137
	WV 061 004172 054	Linda Austin	Northeast Natural Energy LLC	0.125 or Greater	1578	385
	WV 061 004172 068	Larry S. Barr	Northeast Natural Energy LLC	0.125 or Greater	1581	297
	WV 061 004172 055	Michael P. Barr	Northeast Natural Energy LLC	0.125 or Greater	1578	387
	WV 061 004172 061	Patrick C. Barr	Northeast Natural Energy LLC	0.125 or Greater	1579	232
	WV 061 004172 021	Danielle S. Blalock	Northeast Natural Energy LLC	0.125 or Greater	1570	350
	WV 061 004172 017	Maxine G. Morton, f/k/a Maxine G. Sutton, Life Estate Interest	Northeast Natural Energy LLC	0.125 or Greater	1567	497
	WV 061 004172 028	Claudia Brown	Northeast Natural Energy LLC	0.125 or Greater	1573	5
	WV 061 004172 092	Deena Brown	Northeast Natural Energy LLC	0.125 or Greater	1590	331
	WV 061 004172 015	Garold L. Brown and Mary P. Brown	Northeast Natural Energy LLC	0.125 or Greater	1565	727
	WV 061 004172 099	Douglas E. Browning and Denise Browning	Northeast Natural Energy LLC	0.125 or Greater	1592	617
	WV 061 004172 004	Peggy Lee Burchett and John Burchett	Northeast Natural Energy LLC	0.125 or Greater	1566	353
	WV 061 004172 013	Eleanor Carroll	Northeast Natural Energy LLC	0.125 or Greater	1565	734
	WV 061 004172 060	Lisa D. Carroll	Northeast Natural Energy LLC	0.125 or Greater	1579	229
	WV 061 004172 104	Erin Chacon	Northeast Natural Energy LLC	0.125 or Greater	1595	421
	WV 061 004172 014	Patricia S. Christian and Clayton Christian	Northeast Natural Energy LLC	0.125 or Greater	1565	729
	WV 061 004172 094	Robin Cornett	Northeast Natural Energy LLC	0.125 or Greater	1591	138
	WV 061 004172 081	Becki L. Deskin	Northeast Natural Energy LLC	0.125 or Greater	1585	266
	WV 061 004172 039	Rodona A. Dunfee	Northeast Natural Energy LLC	0.125 or Greater	1575	457
	WV 061 004172 067	Debra C. Edwards	Northeast Natural Energy LLC	0.125 or Greater	1580	574
	WV 061 004172 103	Maria Evanoff and Dusty Evanoff	Northeast Natural Energy LLC	0.125 or Greater	1595	263
	WV 061 004172 072	John Fincke	Northeast Natural Energy LLC	0.125 or Greater	1581	315
	WV 061 004172 065	Linda S. Frankford	Northeast Natural Energy LLC	0.125 or Greater	1580	46
	WV 061 004172 036	Coralee Garrett	Northeast Natural Energy LLC	0.125 or Greater	1575	292
	WV 061 004172 023	Robert A. Garrett	Northeast Natural Energy LLC	0.125 or Greater	1570	356
	WV 061 004172 040	Ruth A. Garrett	Northeast Natural Energy LLC	0.125 or Greater	1575	497
	WV 061 004172 034	William D. Garrett and Linda Garrett	Northeast Natural Energy LLC	0.125 or Greater	1575	288
	WV 061 004172 100	Avis Anita Gilpin Adkins	Northeast Natural Energy LLC	0.125 or Greater	1593	672
	WV 061 004172 046	Sharon K. Gustína and John Gustina	Northeast Natural Energy LLC	0.125 or Greater	1577	39
		James Hawk, and His Unknown, Missing, and Abandoning Heirs,				
	WV 061 0041/2 108	Successors, or Assigns, by Robert Shuman Esquire Special Commissioner	Northeast Natural Energy LLC	0.125 or Greater	1616	495
	WV 061 004172 095	Kevin Hawik	North Annual Court National	101000000000000000000000000000000000000	1500	376
	WV 061 004172 106	Billia Hodges fka Billia Hawk	Northood Natural Energy LLC	חיום שו היות שנו ע	4600	2/2
	WV 061 004172 098	Change Daubhand Manage II Daubh	Northeast Natural Energy LLC	0.125 or Greater	1500	27
	VVV UGI UU41/2 U98	Steven Hawk and Iviarcia H. Hawk	Northeast Natural Energy LLC	0.125 or Greater	1592	615
	WV 061 004172 031	Dorothy Mae Johnson	Northeast Natural Energy LLC	0.125 or Greater	1575	254
	WV 061 004172 035	Donna Jean Kelley	Northeast Natural Energy LLC	0.125 or Greater	1575	290
	WV 061 005411 108	Jerry Lee Johnson	Northeast Natural Energy LLC	0.125 or Greater	1670	120
	WV 061 005411 107	James A. Johnson	Northeast Natural Energy LLC	0.125 or Greater	1670	888
	WV 061 004172 035	Donna M. Kelley	Northeast Natural Energy LLC	0.125 or Greater	1575	290

WW-6A1 McClellan 9H

44	Kelley Kueck Patti L. Leasure Cindy Russell Lee Cynthia K. Leininger Tamaree Beatrice Littlefield Constance Louthen William D. Louthen Jr. Erick C. Malmgren Joyce L. Masser Keith A. Myers and Carol Myers	Northeast Natural Energy LLC Northeast Natural Energy LLC	0.125 or Greater 0.125 or Greater	1589	230
WV 061 004172 032 WV 061 004172 030 WV 061 004172 006 WV 061 004172 008 WV 061 004172 022 WV 061 004172 023 WV 061 004172 053 WV 061 004172 003 WV 061 004172 004 WV 061 004172 047 WV 061 004172 066 WV 061 004172 069 WV 061 004172 070 WV 061 004172 083 WV 061 004172 070 WV 061 004172 083	itti L. Leasure ndy Russell Lee inthia K. Leininger maree Beatrice Littlefield mstance Louthen illiam D. Louthen Jr. ick C. Malmgren yce L. Masser itth A. Myers and Carol Myers trick K. Myers	Northeast Natural Energy LLC	0.125 or Greater	2624	256
WV 061 004172 006 WV 061 004172 030 WV 061 004172 030 WV 061 004172 043 WV 061 004172 043 WV 061 004172 055 WV 061 004172 018 WV 061 004172 018 WV 061 004172 019 WV 061 004172 010 WV 061 004172 066 WV 061 004172 047 WV 061 004172 082 WV 061 000109 002 LA	ndy Russell Lee inthia K. Leininger maree Beatrice Littlefield instance Louthen illiam D. Louthen Jr. ick C. Malmgren yce L. Masser ith A. Myers and Carol Myers trick K. Myers			12/2	
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WV 061 004172 008 WV 061 004172 043 WV 061 004172 043 WV 061 004172 052 WV 061 004172 055 WV 061 004172 057 WV 061 004172 057 WV 061 004172 058 WV 061 004172 058 WV 061 004172 058 WV 061 004172 058 WV 061 004172 008 WV 061 004172 019 WV 061 004172 010 WV 061 004172 047 WV 061 004172 047 WV 061 004172 082 WV 061 004172 089	maree Beatrice Littlefield instance Louthen illiam D. Louthen Jr. ick C. Malmgren yce L. Masser ith A. Myers and Carol Myers trick K. Myers	Northeast Natural Energy LLC	0.125 or Greater	1575	284
WV 061 004172 043 WV 061 004172 044 WV 061 004172 056 WV 061 004172 056 WV 061 004172 057 WV 061 004172 053 WV 061 004172 053 WV 061 004172 059 WV 061 004172 018 WV 061 004172 018 WV 061 004172 019 WV 061 004172 010 WV 061 004172 047 WV 061 004172 047 WV 061 004172 083 WV 061 004172 047 WV 061 004172 083	illiam D. Louthen Jr. ick C. Malmgren yce L. Masser ith A. Myers and Carol Myers trick K. Myers	Northeast Natural Energy LLC	0.125 or Greater	1566	375
WV 061 004172 044 WV 061 004172 022 WV 061 004172 053 WV 061 004172 063 WV 061 004172 003 WV 061 004172 064 WV 061 004172 070 WV 061 004172 083 WV 061 000109 002 LA	illiam D. Louthen Jr. ick C. Malmgren yce L. Masser ith A. Myers and Carol Myers trick K. Myers	Northeast Natural Energy LLC	0.125 or Greater	1575	716
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WV 061 004172 056 WV 061 004172 057 WV 061 004172 053 WV 061 004172 053 WV 061 004172 059 WV 061 004172 059 WV 061 004172 005 WV 061 004172 005 WV 061 004172 005 WV 061 004172 016 WV 061 004172 019 WV 061 004172 010 WV 061 004172 047 WV 061 004172 082 WV 061 000109 002 LA WV 061 000109 002 LA WV 061 000109 002 LA	yce L. Masser eith A. Myers and Carol Myers trick K. Myers	Northeast Natural Energy LLC	0.125 or Greater	1570	352
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WV 061 004172 053 WV 061 004172 059 WV 061 004172 018 WV 061 004172 018 WV 061 004172 018 WV 061 004172 005 WV 061 004172 016 WV 061 004172 016 WV 061 004172 019 WV 061 004172 010 WV 061 004172 047 WV 061 004172 047 WV 061 004172 047 WV 061 004172 047 WV 061 004172 083 WV 061 004172 047 WV 061 004172 083 WV 061 000109 002 LA	trick K. Myers	Northeast Natural Energy LLC	0.125 or Greater	1579	234
WV 061 004172 007 WV 061 004172 059 WV 061 004172 052 WV 061 004172 052 WV 061 004172 065 WV 061 004172 009 WV 061 004172 016 WV 061 004172 016 WV 061 004172 019 WV 061 004172 019 WV 061 004172 003 WV 061 004172 010 WV 061 004172 047 WV 061 004172 047 WV 061 004172 047 WV 061 004172 083 WV 061 004172 047 WV 061 004172 083 WV 061 000109 002 LA	rend A Dalencar	Northeast Natural Energy LLC	0.125 or Greater	1578	379
WV 061 004172 059 WV 061 004172 018 WV 061 004172 018 WV 061 004172 005 WV 061 004172 005 WV 061 004172 085 WV 061 004172 085 WV 061 004172 085 WV 061 004172 019 WV 061 004172 019 WV 061 004172 019 WV 061 004172 019 WV 061 004172 012 WV 061 004172 012 WV 061 004172 012 WV 061 004172 064 WV 061 004172 066 WV 061 004172 010 WV 061 004172 010 WV 061 004172 010 WV 061 004172 069 WV 061 004172 069 WV 061 004172 069 WV 061 004172 070 WV 061 004172 070 WV 061 004172 070 WV 061 004172 082 WV 061 004172 082 WV 061 004172 082 WV 061 004172 082 WV 061 000109 002 LA		Northeast Natural Energy LLC	0.125 or Greater	1566	381
WV 061 004172 018 WV 061 004172 052 WV 061 004172 052 WV 061 004172 005 WV 061 004172 016 WV 061 004172 033 WV 061 004172 019 WV 061 004172 012 WV 061 004172 012 WV 061 004172 012 WV 061 004172 012 WV 061 004172 013 WV 061 004172 010 WV 061 004172 010 WV 061 004172 010 WV 061 004172 064 WV 061 004172 069 WV 061 004172 069 WV 061 004172 047 WV 061 004172 048 WV 061 004172 082 WV 061 004172 082 WV 061 004172 082 WV 061 000109 002 LA	Paula L. Picon	Northeast Natural Energy LLC	0.125 or Greater	1579	227
WV 061 004172 052 WV 061 004172 005 WV 061 004172 005 WV 061 004172 016 WV 061 004172 033 WV 061 004172 033 WV 061 004172 019 WV 061 004172 019 WV 061 004172 019 WV 061 004172 013 WV 061 004172 010 WV 061 004172 010 WV 061 004172 010 WV 061 004172 066 WV 061 004172 069 WV 061 004172 047 WV 061 004172 082 WV 061 004172 082 WV 061 004172 082 WV 061 004172 082 WV 061 000109 002 LA	Karen Anita Powers, Remainder Interest	Northeast Natural Energy LLC	0.125 or Greater	1567	499
WV 061 004172 005 WV 061 004172 009 WV 061 004172 009 WV 061 004172 033 WV 061 004172 033 WV 061 004172 001 WV 061 004172 002 WV 061 004172 003 WV 061 004172 066 WV 061 004172 066 WV 061 004172 069 WV 061 004172 069 WV 061 004172 069 WV 061 004172 047 WV 061 004172 089 WV 061 004172 047 WV 061 004172 082 WV 061 004172 082 WV 061 004172 082 WV 061 004172 082 WV 061 000109 002 LA	Frances C. Richie and Clifford F. Richie	Northeast Natural Energy LLC	0.125 or Greater	1578	375
WV 061 004172 009 WV 061 004172 016 WV 061 004172 016 WV 061 004172 033 WV 061 004172 003 WV 061 004172 010 WV 061 004172 047 WV 061 004172 047 WV 061 004172 047 WV 061 004172 048 WV 061 004172 048 WV 061 004172 048 WV 061 004172 083 WV 061 004172 048 WV 061 004172 083 WV 061 004172 082 WV 061 000109 002 LA	David Harold Russell and Pamela Russell	Northeast Natural Energy LLC	0.125 or Greater	1566	355
WV 061 004172 016 WV 061 004172 085 WV 061 004172 083 WV 061 004172 083 WV 061 004172 019 WV 061 004172 019 WV 061 004172 003 WV 061 004172 003 WV 061 004172 012 WV 061 004172 013 WV 061 004172 010 WV 061 004172 010 WV 061 004172 010 WV 061 004172 066 WV 061 004172 069 WV 061 004172 069 WV 061 004172 069 WV 061 004172 069 WV 061 004172 070 WV 061 004172 047 WV 061 004172 047 WV 061 004172 070 WV 061 004172 070 WV 061 004172 070 WV 061 004172 082 WV 061 004172 083 WV 061 004172 083 WV 061 004172 083 WV 061 000109 002 LA	Iris J. Russell	Northeast Natural Energy LLC	0.125 or Greater	1566	385
WV 061 004172 085 WV 061 004172 033 WV 061 004172 033 WV 061 004172 019 WV 061 004172 019 WV 061 004172 002 WV 061 004172 003 WV 061 004172 073 WV 061 004172 012 WV 061 004172 010 WV 061 004172 010 WV 061 004172 010 WV 061 004172 010 WV 061 004172 069 WV 061 004172 069 WV 061 004172 069 WV 061 004172 070 WV 061 004172 082 WV 061 004172 082 WV 061 000109 002 LA	Paulette A. Sawvel	Northeast Natural Energy LLC	0.125 or Greater	1567	495
WV 061 004172 033 WV 062 004172 001 WV 061 004172 001 WV 061 004172 002 WV 061 004172 003 WV 061 004172 003 WV 061 004172 073 WV 061 004172 012 WV 061 004172 012 WV 061 004172 012 WV 061 004172 010 WV 061 004172 066 WV 061 004172 069 WV 061 004172 069 WV 061 004172 069 WV 061 004172 069 WV 061 004172 048 WV 061 004172 070 WV 061 004172 070 WV 061 004172 070 WV 061 004172 070 WV 061 004172 071 WV 061 004172 072 WV 061 004172 082 WV 061 000109 002 LA	Todd E. Long and Kathy Long	Northeast Natural Energy, LLC	0.125 or Greater	1587	288
WV 061 004172 001 WV 061 004172 019 WV 061 004172 019 WV 061 004172 051 WV 061 004172 053 WV 061 004172 073 WV 061 004172 012 WV 061 004172 012 WV 061 004172 010 WV 061 004172 010 WV 061 004172 066 WV 061 004172 066 WV 061 004172 069 WV 061 004172 069 WV 061 004172 047 WV 061 004172 082 WV 061 000109 002 LA WV 061 000109 002 LA WV 061 000109 002 LA	Barbara A. Stover and Jack Stover	Northeast Natural Energy LLC	0.125 or Greater	1575	286
WV 061 004172 019 WV 061 004172 002 WV 061 004172 003 WV 061 004172 003 WV 061 004172 073 WV 061 004172 012 WV 061 004172 012 WV 061 004172 010 WV 061 004172 010 WV 061 004172 010 WV 061 004172 010 WV 061 004172 066 WV 061 004172 070 WV 061 004172 047 WV 061 004172 047 WV 061 004172 047 WV 061 004172 047 WV 061 004172 082 WV 061 004172 083	Barbara June Sutton	Northeast Natural Energy LLC	0.125 or Greater	1560	233
WV 061 004172 002 WV 061 004172 051 WV 061 004172 053 WV 061 004172 073 WV 061 004172 012 WV 061 004172 102 WV 061 004172 102 WV 061 004172 102 WV 061 004172 064 WV 061 004172 066 WV 061 004172 069 WV 061 004172 069 WV 061 004172 070 WV 061 004172 082 WV 061 000109 002 LA WV 061 000109 002 LA WV 061 000109 002 LA	Dave Sutton and Alison Sutton, Remainder Interest	Northeast Natural Energy LLC	0.125 or Greater	1570	346
WV 061 004172 051 WV 061 004172 003 WV 061 004172 003 WV 061 004172 012 WV 061 004172 102 WV 061 004172 102 WV 061 004172 010 WV 061 004172 010 WV 061 004172 069 WV 061 004172 069 WV 061 004172 069 WV 061 004172 070 WV 061 004172 047 WV 061 004172 047 WV 061 004172 070 WV 061 004172 082 WV 061 004172 082 WV 061 000109 002 LA WV 061 000109 002 LA	Douglas B. Sutton	Northeast Natural Energy LLC	0.125 or Greater	1560	235
WV 061 004172 003 WV 061 004172 073 WV 061 004172 012 WV 061 004172 083 WV 061 004172 102 WV 061 004172 010 WV 061 004172 064 WV 061 004172 066 WV 061 004172 069 WV 061 004172 067 WV 061 004172 070 WV 061 004172 070 WV 061 004172 070 WV 061 004172 071 WV 061 004172 072 WV 061 004172 073 WV 061 004172 074 WV 061 004172 074 WV 061 004172 074 WV 061 004172 074 WV 061 000109 002 LA	Judy K. Sutton	Northeast Natural Energy LLC	0.125 or Greater	1578	373
WV 061 004172 073 WV 061 004172 012 WV 061 004172 012 WV 061 004172 102 WV 061 004172 010 WV 061 004172 066 WV 061 004172 066 WV 061 004172 069 WV 061 004172 069 WV 061 004172 047 WV 061 004172 047 WV 061 004172 047 WV 061 004172 047 WV 061 004172 048 WV 061 004172 047 WV 061 004172 082 WV 061 004172 082 WV 061 000109 002 LA	Stephen R. Sutton and Barbara H. Sutton	Northeast Natural Energy LLC	0.125 or Greater	1560	237
WV 061 004172 012 WV 061 004172 083 WV 061 004172 102 WV 061 004172 010 WV 061 004172 010 WV 061 004172 066 WV 061 004172 069 WV 061 004172 070 WV 061 004172 071 WV 061 004172 082 WV 061 004172 082 WV 061 000109 002 LA	Barbara Uhrig	Northeast Natural Energy LLC	0.125 or Greater	1581	317
WV 061 004172 083 WV 061 004172 102 WV 061 004172 102 WV 061 004172 064 WV 061 004172 066 WV 061 004172 069 WV 061 004172 070 WV 061 004172 071 WV 061 004172 071 WV 061 000109 002 LA	Darlene W. Vorhies	Northeast Natural Energy LLC	0.125 or Greater	1565	736
WV 061 004172 102 WV 061 004172 010 WV 061 004172 010 WV 061 004172 066 WV 061 004172 069 WV 061 004172 070 WV 061 004172 047 WV 061 004172 047 WV 061 004172 048 WV 061 004172 048 WV 061 004172 048 WV 061 000109 002 LA	Jeremy B. Watson	Northeast Natural Energy LLC	0.125 or Greater	1586	540
WV 061 004172 010 WV 061 004172 064 WV 061 004172 066 WV 061 004172 069 WV 061 004172 070 WV 061 004172 047 WV 061 004172 047 WV 061 004172 048 WV 061 004172 070 WV 061 004172 071 WV 061 000109 002 LA	Kevin P. Watson	Northeast Natural Energy LLC	0.125 or Greater	1593	675
WV 061 004172 064 WV 061 004172 066 WV 061 004172 069 WV 061 004172 070 WV 061 004172 047 WV 061 004172 048 WV 061 004172 048 WV 061 004172 071 WV 061 004172 071 WV 061 000109 002 LA	Debra S. Wells	Northeast Natural Energy LLC	0,125 or Greater	1568	135
WV 061 004172 066 WV 061 004172 069 WV 061 004172 070 WV 061 004172 047 WV 061 004172 047 WV 061 004172 071 WV 061 004172 082 WV 061 000109 002 LA	Jack Williams	Northeast Natural Energy LLC	0.125 or Greater	1580	44
WV 061 004172 069 WV 061 004172 070 WV 061 004172 047 WV 061 004172 048 WV 061 004172 071 WV 061 004172 082 WV 061 000109 002 LA	James A. Williams	Northeast Natural Energy LLC	0.125 or Greater	1580	48
WV 061 004172 070 WV 061 004172 047 WV 061 004172 048 WV 061 004172 071 WV 061 004172 082 WV 061 000109 002 LA	Jaye Ann Williams	Northeast Natural Energy LLC	0.125 or Greater	1581	299
WV 061 004172 047 WV 061 004172 048 WV 061 004172 071 WV 061 004172 082 WV 061 000109 002 LA	Jennifer Williams	Northeast Natural Energy LLC	0.125 or Greater	1581	301
WV 061 004172 048 WV 061 004172 071 WV 061 004172 082 WV 061 000109 002 LA WV 061 000109 002 LA WV 061 000109 002 LA	Charles A. Winland	Northeast Natural Energy LLC	0.125 or Greater	1577	41
WV 061 004172 071 WV 061 004172 082 WV 061 000109 002 LA	Thomas L. Winland and Martha Winland	Northeast Natural Energy LLC	0.125 or Greater	1577	43
WV 061 004172 082 WV 061 000109 002 LA WV 061 000109 002 LA WV 061 000109 002 LA	William B. Winland	Northeast Natural Energy LLC	0.125 or Greater	1581	313
WV 061 000109 002 LA WV 061 000109 002 LA WV 061 004223 001	Ora K. Yarbrough aka Katie Yaraborough	Northeast Natural Energy LLC	0.125 or Greater	1585	268
WV 061 000109 002 LA WV 061 004223 001	XTO Energy Inc.	Northeast Natural Energy LLC	0.125 or Greater	1620	424
WV 061 004223 001	XTO Energy Inc.	Northeast Natural Energy LLC	0.125 or Greater	1620	424
	Mary C. Walls	Northeast Natural Energy LLC	0.125 or Greater	1568	394
WV 061 004332 003 Rosale	Rosalea T. Vacher aka Olive Rosalie Vasher	Northeast Natural Energy LLC	0.125 or Greater	1638	777
	Sadie Ice Tennant	Northeast Natural Energy LLC	0.125 or Greater	1600	604
WV 061 004149 011 Juanita	Juanita May Merico	Northeast Natural Energy LLC	0.125 or Greater	1568	779

Tract ID	NNE LEASE NOINIBER	THE STATE OF THE S	LESSEE INAINE		1	
	WV 061 004332 001	Tina Tennant Long	Northeast Natural Energy LLC	0.125 or Greater	1575	483
	WV 061 004332 002	Rebecca Butcher	Northeast Natural Energy LLC	0,125 or Greater	1575	485
	WV 061 003930 020	Mary Ann Dieroff	Northeast Natural Energy LLC	0.125 or Greater	1568	581
	WV 061 003930 018	Thomas R. Barnard	Northeast Natural Energy LLC	0.125 or Greater	1566	367
	WV 061 004187 001	Barbara Jo Wilkison	Northeast Natural Energy LLC	0.125 or Greater	1565	213
	WV 061 003930 027	Cynthia Lowther	Northeast Natural Energy LLC	0.125 or Greater	1566	589
	WV 061 003930 005	William J. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1567	468
	WV 061 003930 015	Judi L, Mills	Northeast Natural Energy LLC	0.125 or Greater	1556	515
	WV 061 003930 024	Deborah K. Lowther	Northeast Natural Energy LLC	0.125 or Greater	1565	246
	WV 061 005174 001	Shannon Lowther	Northeast Natural Energy LLC	0.125 or Greater	1621	754
	WV 061 003930 008	Bernard R. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1564	792
	WV 061 004604 001	Twyla E. Wright	Northeast Natural Energy LLC	0.125 or Greater	1596	767
	WV 061 003930 016	Janice Sue Fluharty	Northeast Natural Energy LLC	0.125 or Greater	1568	579
	WV 061 003930 013	Richard A. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1564	260
	WV 061 003930 012	Judy Ann Pethel	Northeast Natural Energy LLC	0.125 or Greater	1566	456
	WV 061 003930 011	Betty Lou Fluharty	Northeast Natural Energy LLC	0.125 or Greater	1566	458
	WV 061 003930 017	Randall William Tennant	Northeast Natural Energy LLC	0.125 or Greater	1566	490
	WV 061 003930 007	Ricky Lee Satterfield	Northeast Natural Energy LLC	0.125 or Greater	1567	480
	WV 061 003930 014	Douglas Allen Satterfield	Northeast Natural Energy LLC	0.125 or Greater	1566	464
	WV 061 003930 022	Denise Michelle Romano	Northeast Natural Energy LLC	0.125 or Greater	1564	256
	WV 061 005105 002	Sharon J. Rogers-Moody	Northeast Natural Energy LLC	0.125 or Greater	1629	178
	WV 061 005275 005	Mark D. Rogers	Northeast Natural Energy LLC	0.125 or Greater	1629	294
	WV 061 005275 006	Michael Wayne Rogers	Northeast Natural Energy LLC	0.125 or Greater	1629	296
	WV 061 005275 004	Lyle Eugene Rogers, Jr.	Northeast Natural Energy LLC	0.125 or Greater	1629	292
	WV 061 005275 003	Shawn Eugene Rogers	Northeast Natural Energy LLC	0.125 or Greater	1629	290
	WV 061 005275 001	Larry Allen Rogers	Northeast Natural Energy LLC	0.125 or Greater	1629	286
	WV 061 004603 002	Marvin Keith Wilson	Northeast Natural Energy LLC	0.125 or Greater	1607	272
	WV 061 004381 001	Kevin D. Ammons	Northeast Natural Energy LLC	0.125 or Greater	1578	307
	WV 061 004149 012	Annetta A. Mayhew	Northeast Natural Energy LLC	0.125 or Greater	1580	572
	WV 061 004269 005	Edith Lorene Burns	Northeast Natural Energy LLC	0.125 or Greater	1580	580
	WV 061 004269 007	Marvin M. Mayhew	Northeast Natural Energy LLC	0.125 or Greater	1600	21
	WV 061 003930 021	William H. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1567	266
	WV 061 004269 004	Daniel R. Tennant	Northeast Natural Energy LLC	0.125 or Greater	1575	228
	WV 061 004269 003	Kathryn Holcomb	Northeast Natural Energy LLC	0.125 or Greater	1572	790
	WV 061 003930 009	Simon A. Tenannt II	Northeast Natural Energy LLC	0.125 or Greater	1567	470
	WV 061 004269 001	Stacey Tennant	Northeast Natural Energy LLC	0.125 or Greater	1570	713
u.	WV 061 005560 003	Marilesa Yost	Northeast Natural Energy LLC	0.125 or Greater	1692	319
9	WV 061 004089 000	Craig M. Steele	Northeast Natural Energy LLC	0.125 or Greater	1560	239
I	WV 061 000113 001-LA	SWN Production Company, LLC	Northeast Natural Energy LLC	0.125 or Greater	1623	482
	WV 061 005460 001	Chesapeake Appalachia, LLC	SWN Production Company, LLC	0.125 or Greater	1512	206
	WV 061 005451 001	Equinor USA Onshore Properties, Inc.	Northeast Natural Energy LLC	0.125 or Greater	1640	801
_	WV 061 000113 001-LA	SWN Production Company, LLC	Northeast Natural Energy LLC	0.125 or Greater	1623	482
	WV 061 005460 001	Chesapeake Appalachia, LLC	SWN Production Company, LLC	0.125 or Greater	1512	206

Tract ID	NNE LEASE NUMBER LESSOR NAME	LESSOR NAME	LESSEE NAME	ROYALTY	BOOK/	PAGE
	WV 061 005460 001	James S. King	Northeast Natural Energy LLC	0.125 or Greater	1578	208
ſ	WV 061 004223 001	Mary C. Walls	Northeast Natural Energy LLC	0.125 or Greater	1568	394
×	WV 061 000113 001-LA	WV 061 000113 001-LA SWN Production Company, LLC	Northeast Natural Energy LLC	0.125 or Greater	1623	482
	WV 061 005460 001	Chesapeake Appalachia, LLC	SWN Production Company, LLC	0.125 or Greater	1512	206
	WV 061 005451 001	Equinor USA Onshore Properties	Northeast Natural Energy LLC	0.125 or Greater	1640	801
	WV 061 005460 001	Chesapeake Appalachia, LLC	SWN Production Company, LLC	0.125 or Greater	124	224
	WV 061 005460 001	James S. King	Chesapeake Appalachia, LLC	0.125 or Greater	1418	778
7	WV 061 000113 001-LA	WV 061 000113 001-LA SWN Production Company, LLC	Northeast Natural Energy LLC	0.125 or Greater	1623	482
	WV 061 005459 000	Chesapeake Appalachia, LLC	SWN Production Company, LLC	0.125 or Greater	124	224
	WV 061 005459 000	Nelson D. Gallagher and Cheryl L. Gallagher	Chesapeake Appalachia, LLC	0.125 or Greater	1422	207
Σ	WV 061 000317 001-LA	WV 061 000317 001-LA SWN Production Company, LLC	Northeast Natural Energy LLC	0.125 or Greater	1689	320
	WV 061 000317 001-LA	WV 061 000317 001-LA Chesapeake Appalachia, LLC	SWN Production Company, LLC	0.125 or Greater	1434	507



	DOODEDTY OWNED INDEY
1.00.7	PROPERTY OWNER INDEX
1-26-7	NETTIEALYCE McCLELLAN
1-26-7.3	MILDRED GREENE
1-26-7.4	MILDRED C. GREENE
1-24-23	MILDRED C. GREENE
1-24-9.1	MARY C. WALLS
1-24-20.1	KEVIN D. & MARLA J. AMMONS
1-24-20.2	BRUCE R. & CYNTHIA E. TOOTHMAN
1-24-9	MARY C. WALLS
1-24-20	KEVIN D. MARLA J. AMMONS
1-24-12	HILDA JEAN DONALDSON
1-24-13.1	DOUGLAS ALAN SWISHER
1-24-15	MARY C. WALLS
1-24-13.2	FRANCIS GREGORY & THERESA IRENE SWISHER
1-24-3	JOHN A. & KAREN J. MASON
1-24-13	JODI NOELLE & ERIC MASON SWECKER
1-24-2	ERIC DALE CHISLER
1-17-9	FRANKLIN MICHAEL CHISLER
1-17-7.6	TIMOTHY K. & BILLIE JO BANE
1-17-7.7	KENT & SHIRLEY LEONHARDT
1-17-8.1	TIMOTHY K. & BILLIE JO BANE
1-17-8	DEBORAH THOMAS
1-17-7.8	DEBORAH K. WOODS
1-17-7.2	JUSTIN & RAEALENA NICHOLSON
1-17-7.1	DEBORAH THOMAS
1-18-46	ALICE B. & TERRY JOE GUMP, KAREN SUE NICHOLSON & MELISSA ANN RABER
1-18-16	SOCTTY W. & MINOKA HOWARD
1-18-15.2	JOHN D. AMMONS
1-18-15.6	RONALD J. & JOHN R. AMMONS
1-18-15.5	RONALD J. & JOHN R. AMMONS
1-18-15.4	JOHN RICHARD & JENNIFER A. AMMONS
1-18-15	DAVID & JESSICA L. AMMONS
1-18-15.3	RONALD J. AMMONS

	LEASE INDEX		
A	WV-061-04172-001	H	WV-061-00109-001-LA
В	WV-061-00109-002-LA	1	WV-061-00119-001-LA
C	WV-061-04182-001	1	WV-061-04602-001
D	WV-061-00109-002-LA	K	WV-061-00119-001-LA
E	WV-061-00109-002-LA	L	WV-061-00119-001-LA
F	WV-061-00111-002-LA	M	WV-061-00113-001-LA
G	WV-061-04089-000		

FILE #:NEE14	DATE:JANUARY 27, 2020
DRAWING #:2940	OPERATOR'S WELL #: McCLELLAN 9H
SCALE: N/A	API WELL #: 47 61 COUNTY PERMIT



January 23, 2020

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

RE: McClellan 5H, 9H, 13H, 17H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the roads identified as Frank Haught Road (State Route 15/9), Crossroads-Fairview Road (Route 15), Simon Haught Road (Route 17/4), County Route 13, and Graveyard Hill on the enclosed survey plats.

Skicerely,

Charles Dornetto

Manager - Land Operations

Enclosure

RECEIVED Office of Oil and Gas

JAN 2 9 2020

WV Department of Environmental Protection