

#### 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

Friday, March 30, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

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

Permit approval for KASSAY 10H Re: 47-061-01797-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless 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: KASSAY 10H

Farm Name: PATTY A KASSAY

U.S. WELL NUMBER: 47-061-01797-00-00

Horizontal 6A New Drill

Date Issued: 3/30/2018

## PERMIT CONDITIONS 4706101797

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: _	
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## PERMIT CONDITIONS 4706101797

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

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API NO.	47		-						
OPE	RATO	RWE	LLN	10.	1DH				
We	II Pad	Nam	e: K	assa	y				

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

1) Well Operator: Northeast Natural Energy	LLC	494498281	Monongalia	Clay	Blacksville
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 10H		Well Pa	d Name: Kassa	ау	
3) Farm Name/Surface Owner: Patty Kas	say	Public Ro	ad Access: Cou	nty Route 2	5/3 (Yank Hollow Road)
4) Elevation, current ground: 1,534'	E	levation, proposed	post-constructi	on: 1,534	,
5) Well Type (a) Gas X Other	Oil _	Unc	lerground Storag	ge	
(b)If Gas Shallow	(	Deep			
Horizontal 2	<		MOF	3/8	12018
6) Existing Pad: Yes or No Yes					
<ol> <li>Proposed Target Formation(s), Depth(s)</li> <li>Marcellus; 8,288'; 103'; 3,600 PSI</li> </ol>	, Anti	cipated Thickness	and Expected P	ressure(s):	
8) Proposed Total Vertical Depth: 8,288					
	arcellu	IS			
10) Proposed Total Measured Depth: 19	,607.5	53'	- COURT OF THE		
11) Proposed Horizontal Leg Length: 10	,649'				
12) Approximate Fresh Water Strata Depth	hs:	50' ; 1,120'			
13) Method to Determine Fresh Water Dep	oths:	DRILLERS LOG	FROM OFFSE	T WELLS	3
14) Approximate Saltwater Depths: 1,94	6' ; 2,3	320'			
15) Approximate Coal Seam Depths: 125	5' ; 1,0	98'			
16) Approximate Depth to Possible Void (	(coal n	nine, karst, other):	N/A		
17) Does Proposed well location contain of directly overlying or adjacent to an active			No	, <u>x</u>	
(a) If Yes, provide Mine Info: Name:					
Depth:					
Seam:					
Owner:					

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WW-6B (04/15) API NO. 47-\_\_\_ OPERATOR WELL NO. 10H
Well Pad Name: Kassay

18)

#### CASING AND TUBING PROGRAM

ТҮРЕ	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	1,220'	1,190'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,780'	2,750'	CTS
Production	5-1/2"	New	P-110	20	19,607.53'	19,577.53'	4,636 Cu. Ft.
Tubing	2-7/8"	New	N-80	6.5	N/A	8,500'	N/A
Liners							

MDK 3/8/2018

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	30"	.375	415		4,500 psi Grout	N/A
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"	N/A	.217"	10,570	3,600	N/A	N/A
Liners							

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

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WW-6B	,
(10/14)	

API NO. 47-0 6	1	0	1	7	9	7	_
<b>OPERATOR WE</b>	LL	NO.	_10	Н			_
Well Pad Name	e:	Kassa	ay.				

19	) Describe <sub>I</sub>	proposed	well wo	rk, includ	ing the	drilling	and p	lugging	back o	fany	pilot h	ole:
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Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 5,500,' TVD/MD. The well will then be horizontally drilled on fluid from KOP to approximately 8,288' TVD / 19,607.53' MD along a 143° 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 100 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 other 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.

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WV Department of
Environmental Protection

### NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV Field: Monongalia

Facility: Kassay Pad

WV Department of Environmental Protection

Well: Kassay 10H Wellbore: Kassay 10H PWB

Туре	Hole Size	Casing Size	Grade		GL Depth (Csg)
Conductor	28"	24"	NA		40¹
Surface	17-1/2"	13-3/8"	J-55	54.5	1190'
Intermediate	12-1/4"	9-5/8"	J-55	40	2750'

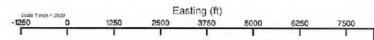
Formation	Depth (KBTVD)
Tully	8040'
Hamilton	8090'
Upper Marcellus	8198'
Lower Marcellus	8246'
Onondaga	8301'



			Location I	nformation		
	Facility Name		Grid East (US ff)	God North (US ft)	Latitude	Longitude
	Kossay Pad		1772945.670	422666,830	39°39'30.118"N	80°11'40,564"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Gnd North (US ft)	Latitude Longitud	
Stot #10	92.38	82.24	1773027.000	422759.200	39°39'31,037"N	80°11'39.521"W
Ground Leve	(GL) to Ground	level (At Slot: SI	ot #10)		Oft	
Mean Sea Level to Ground level (At Slot: Slot #10)		-1534ft				
Ground Leve	(GL) to Mean S	ea Level			1534ft	

1250

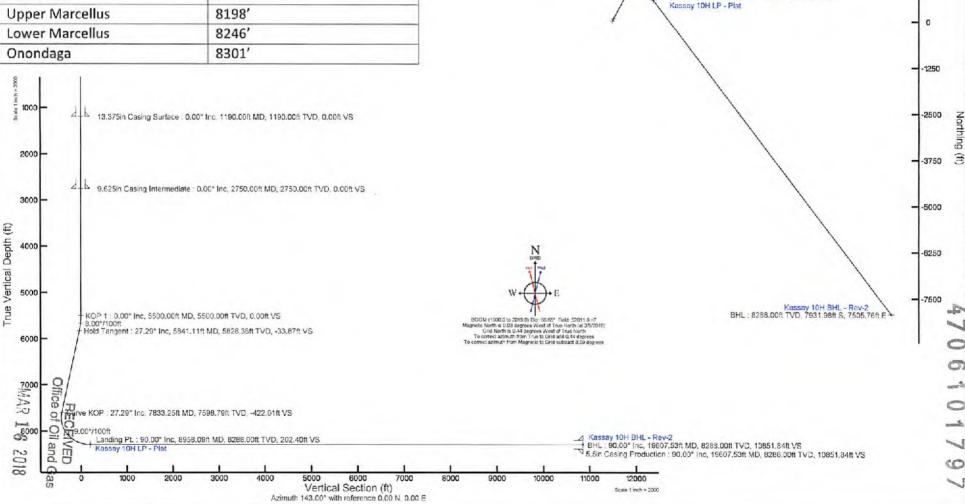




Curve KOP: 7598.79ft TVD, 878.02ft N, 463.94ft E

Landing Pt.: 8288.00ft TVD, 573.04ft N. 1096.77ft E.

Tie On: -0.00ft TVD, 0.00ft N, 0.00ft E KOP 1: 5500.00ft TVD, 0.00ft N, 0.00ft E Hold Tangent: 5828.36ft TVD, 70.47ft N, 37.24ft E



#### Northeast Natural Energy LLC Mine Contingency Plan



On all wells drilled, Northeast Natural Energy LLC ("NNE") has contingency strategies in place should an unanticipated void or mine be encountered while drilling the surface section of the well. If encountered, any accumulated gases will be diverted a safe distance away from the drilling operations through the blooey line and/or flare.

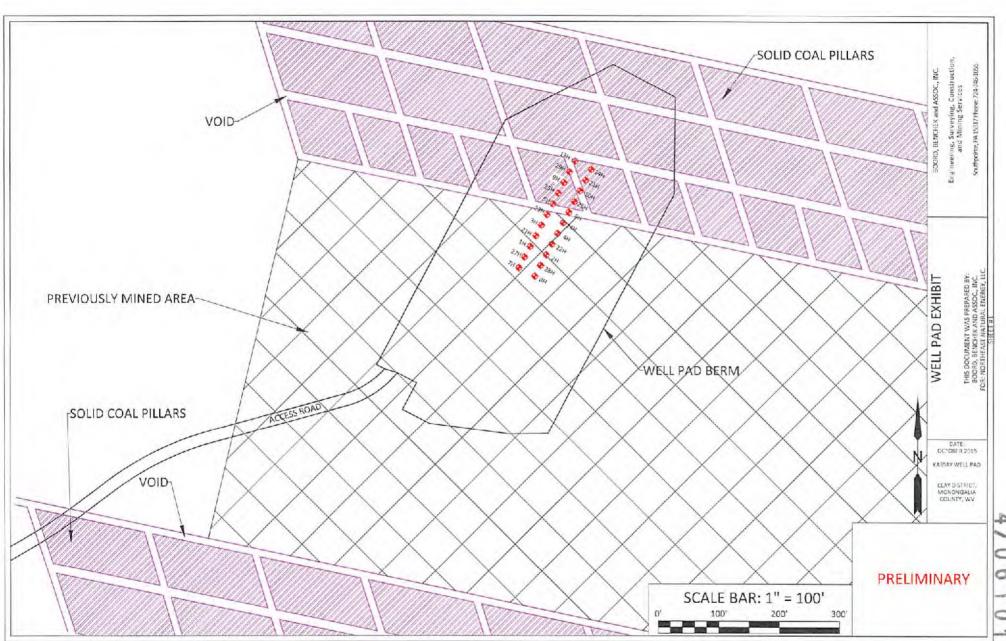
All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to run a string of 18-5/8" 87.50#/ft J-55 through the section when needed.

The 18-5/8" would be set 30-50' below the void with cement baskets placed directly above and below. The section of pipe below the void would be cemented using the balance method with 100% excess. The section above the void would be cemented separately by using remedial top fill techniques and 30% excess.

With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted depth.

\*The diagram below visually shows the alternative casing plan should an unanticipated void be encountered.

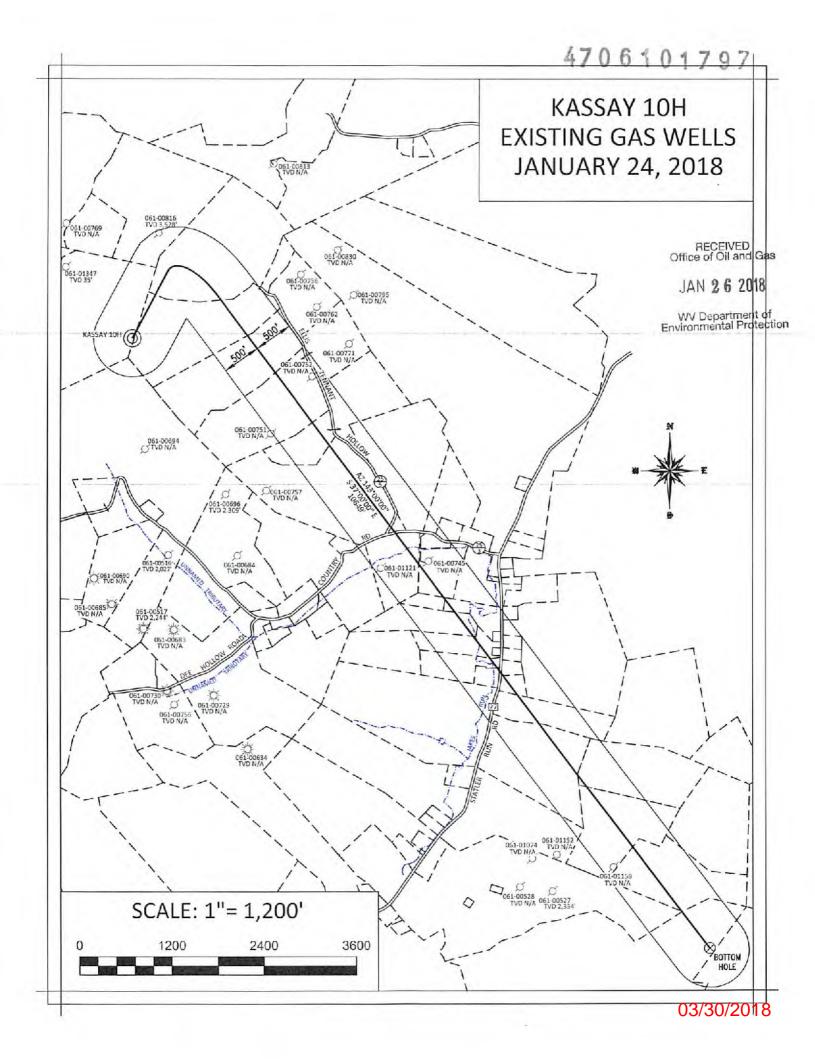
#### Casing Schematic w/ Mine String Casing Schematic w/o Mine String 24" Conductor Set 10' Below 24" Conductor Set 10' Below Non-Compacted Soils Non-Compacted Soils 22" Hole Drilled to 50' Below Void 18-5/8" 87.5#/ft. J-55 BTC Set 30'-50' Below 17-1/2" Hole Drilled, 13-3/8" 54.5#/ ft. J-55 BTC/STC Set at Originally Permitted Depth 17-1/2" Hole Drilled, 13-3/8" 54.5#/ Cement-to-Surface ft. J-55 BTC/STC Set at Originally Permitted Depth Cement-to-Surface 12 1/2" Hole Drilled, 9-5/8" 40#/ft. J-55 8RD LTC Set at Originally Permitted 12 1/2" Hole Drilled, 9-5/8" 40#/ft. J-55 Depth 8RD LTC Set at Originally Permitted Cement-to-Surface Depth RECEIVED Cement-to-Surface Office of Oil and Gas NOV 2 2 2017 8 %" Drilled, 5-1/2" 20#/tt, P-110 BTC Department of Set at Originally Permitted Depth WV Departmental Protection Cemented Top Minimum 200 Physical Protection 8 3/4" Drilled, 5-1/4" 20#/ft. P-110 BTC Set at Originally Permitted Depth Cemented Top Minimum 200' Inside of Intermediate Casing Intermediate Casing



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			Kassay 10H Ar	ea of Review				
API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Producing Formation
47-061-00751	Jesse Sine	1	Consolidation Coal Co.	39.655291	-80.187847	4-17-60	NA	RePlug Plat 02-24-198
47-061-01121	Virginia L Tennant	1	East Resources, INC.	39.65053	-80.182734	4-17-80	NA	Plugged on 08-19-199
47-061-00745	Rosemary Marie Saunders	NA	Consolidation Coal Co.	39.650796	-80.18053	4-17-85.3	NA	Plugged on 04-27-198
47-061-00752	Jesse Sine	NA	Consolidation Coal Co.	39.657322	-80.185972	4-17-60	NA	Plugged on 05-21-198
47-061-00816	Terry & Lydia Eddy	M1-531	Consolidation Coal Co.	39.662401	-80.192739	4-17-65	NA	Plugged on 06-20-198
47-061-01158	Albert & Merle J. Eddy	MI-470	Consolidation Coal Co.	39.639921	-80.171901	4-21-03	NA	Plugged 06-20-1994





WW-9 (4/16)

API Number 47 -	
Operator's Well No	. Kassay 10H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Northeast Natural Energy LLC	OP Code 494498281
Watershed (HUC 10) Dunkard Creek	Quadrangle Blacksville, WV
Do you anticipate using more than 5,000 bbls of water to co	mplete the proposed well work? Yes V No
Will a pit be used? Yes ☐ No ✓	
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection ( UIC Per	rmit Number)
Reuse (at API Number unknown at	
Off Site Disposal (Supply form V	WW-9 for disposal location)
Other (Explain	
Will closed loop system be used? If so, describe: Yes, Plea	ase See Attachment "A"
	ontal)? Air, freshwater, oil based, etc. Air-Vertical; Oil Based - Curve & Horizontal
-If oil based, what type? Synthetic, petroleum, etc.	
	osifiers, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents
Drill cuttings disposal method? Leave in pit, landfill, remov	red offsite, etc. Removed Offsite - Please See Attachment "A"
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Please Se	ee Attachment "A"
	d Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action.  I certify under penalty of law that I have personal application form and all attachments thereto and that, but	and conditions of the GENERAL WATER POLLUTION PERMIT issued a Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this ased on my inquiry of those individuals immediately responsible for is true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.
Company Official Signature	NOV 2 2 2017
Company Official (Typed Name) Hollie Medley	
Company Official Title Regulatory Manager	WV Department of Environmental Protection
Subscribed and sworn before me this day of	Notary Public
	OFFICIAL SEAL
My commission expires 9/25/2020	STATE OF WEST VIRGINIA  NOTAL STATE

Northeast Natural Energy LLC  Proposed Revegetation Treatment: Acres Disturbed 15.85 Prevegetation pH 5-7  Lime 2 Tons/acre or to correct to pH 7  Fertilizer type 19-19-19  Fertilizer amount 300 Ibs/acre  Mulch 2 Tons/acre  Seed Mixtures  Temporary Permanent  Seed Type Ibs/acre  Orchard Grass 46 Orchard Grass 46  Red Clover 8 Red Clover 8  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have bee provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Proposed Revegetation Treatment: Acres Disturbed 15.85 Prevegetation pH 5-7  Lime 2 Tons/acre or to correct to pH 7  Fertilizer type 19-19-19  Fertilizer amount 300 Ibs/acre  Mulch 2 Tons/acre  Seed Mixtures  Temporary Permanent  Seed Type Ibs/acre  Orchard Grass 46 Orchard Grass 46  Red Clover 8 Red Clover 8  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W) acreage, of the land application area.	Proposed Revegetation Treatment: Acres Disturbed 15.85 Prevegetation pH 5-7  Lime 2 Tons/acre or to correct to pH 7  Fertilizer type 19-19-19  Fertilizer amount 300 Ibs/acre  Mulch 2 Tons/acre  Seed Mixtures  Temporary Permanent  Seed Type Ibs/acre  Orchard Grass 46 Orchard Grass 4  Red Clover 8 Red Clover  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 18  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Proposed Revegetation Treatment: Acres Disturbed15.85         Prevegetation pH5-7           Lime2	
Fertilizer type 19-19-19  Fertilizer amount 300	Fertilizer type 19-19-19  Fertilizer amount 300 lbs/acre  Mulch 2 Tons/acre  Seed Mixtures  Temporary Permanent  Seed Type lbs/acre Seed Type lbs/acre  Orchard Grass 46 Orchard Grass 46  Red Clover 8 Red Clover 8  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W) acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Fertilizer type 19-19-19  Fertilizer amount 300 lbs/acre  Mulch 2 Tons/acre  Seed Mixtures  Temporary Permanent  Seed Type lbs/acre Seed Type lbs/acre  Orchard Grass 46 Orchard Grass 4  Red Clover 8 Red Clover  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 16  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Fertilizer type 19-19-19 Fertilizer amount 300 lbs/acre	
Fertilizer amount 300 Ibs/acre  Mulch 2 Tons/acre  Seed Mixtures  Temporary Permanent  Seed Type Ibs/acre Seed Type Ibs/acre Orchard Grass 46 Orchard Grass 46  Red Clover 8 Red Clover 8  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have bee provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Fertilizer amount 300 Ibs/acre    Mulch   2   Tons/acre	Fertilizer amount 300 Ibs/acre    Mulch   2   Tons/acre	Fertilizer amount 300 lbs/acre	
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Temporary Permanent  Seed Type Ibs/acre Seed Type Ibs/acre Orchard Grass 46 Orchard Grass 46  Red Clover 8 Red Clover 8  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have bee provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Temporary  Permanent  Seed Type Ibs/acre Orchard Grass 46 Orchard Grass 46  Red Clover 8 Red Clover 8  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W) acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Temporary  Permanent  Seed Type Ibs/acre Orchard Grass 46 Orchard Grass 4  Red Clover  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Mulch 2 Tons/acre	
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Seed Type   Ibs/acre   Seed Type   Ibs/acre   Orchard Grass   46   Orchard Grass   46   Red Clover   8   Red Clover   8   Tetraploid Perennial Rye   16   Tetraploid Perennial Rye   16   Timothy   15   Annual Rye   15   Timothy   15   Annual Rye   15   Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have bee provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Seed Type Ibs/acre Orchard Grass 46 Orchard Grass 46  Red Clover 8 Red Clover 8  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Seed Type Ibs/acre Orchard Grass 46 Orchard Grass 4  Red Clover 8 Red Clover  Tetraploid Perennial Rye 16 Tetraploid Perennial Rye 16  Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 16  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Seed Mixtures	
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Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have bee provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 15  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W) acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Timothy 15 Annual Rye 15 Timothy 15 Annual Rye 16  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Red Clover 8 Red Clover	8
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	Comments:	Comments:	Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info ha provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	have beer L x W), a

Date: 11(16/2017

\_) No

Title: INSpector

Field Reviewed?

Yes

03/30/2018

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WV Department of Environmental Protection

#### Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Kassay 10H well. Return flow from the well will be separated into its liquid and solid form. Liquids will be held in steel tanks and reused in the drilling and completion process or disposed of at an approved facility listed below. Solids removed from the stream will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated.

Kassay 10H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

- Westmoreland Landfill (Tervita) Belle Vernon, PA (Permit # 100277)
- Meadowfill Landfill (Waste Management) Bridgeport, WV (Permit # SWF 103298)
- Max Environmental Yukon, PA (PAD004835146 and 301071)
- Max Environmental Bulger, PA (PAD059087072 and 301359)
- Chestnut Valley Landfill (Advanced Disposal) Export, PA (Permit # 101421)

NNE plans to reuse and recycle all flowback fluid and/or reach out to other operators in the area who may be able to reuse and recycle such fluid. However, in the event that reuse is not obtainable the fluid will be disposed of at one, or multiple, of the following disposal/approved waste facilities unless listed facilities are no longer approved to accept waste at time of disposal:

- Fairmont Brine Processing (WV NPDES #0116408)
- Green Hunter M. E. Elder 1 Disposal Well (Permit # 47-085-05151)
- Green Hunter Mason 1 Disposal Well (Permit #47-085-09721)
- Green Hunter Warren Disposal Well (Permit #34-121-2-3995)
- Green Hunter Travis Unit Disposal Well (Permit #34-121-2-4086)
- Viking Energy Corporation 20320 Disposal Well (Permit#47-039-02210)
- Ohio Oil Gathering Killbuck Disposal Well (Permit #34-075-24527)
- Ohio Oil Gathering Moran Disposal Well (Permit #34-089-24792)
- Ohio Oil Gathering Bells Run Disposal Well (Permit #34-167-29395)
- Ohio Oil Gathering Long Run Disposal Well (Permit #34-167-29658)
- Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-29685)
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit # 2D0732523)

Office of Oil and Gas

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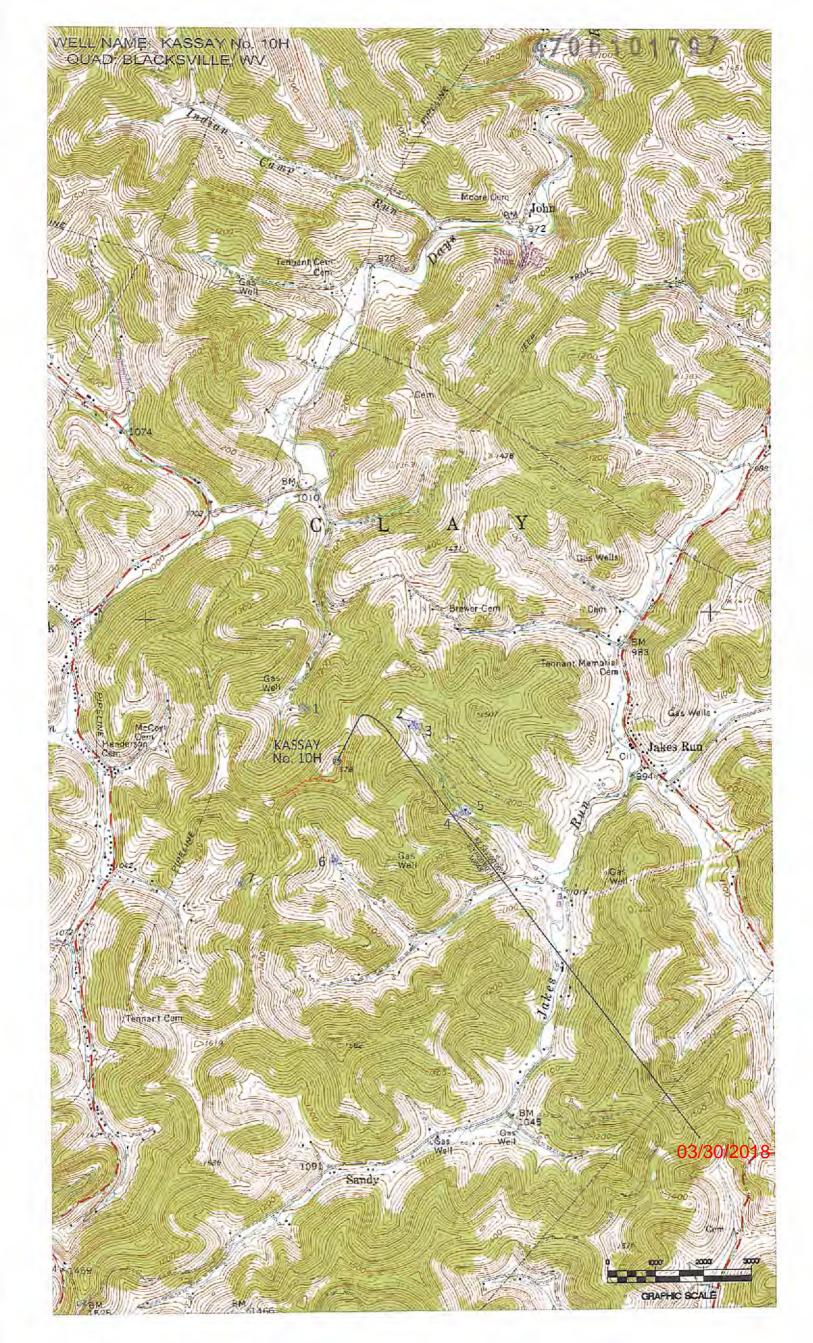
# Kassay 10H SITE SAFETY PLAN

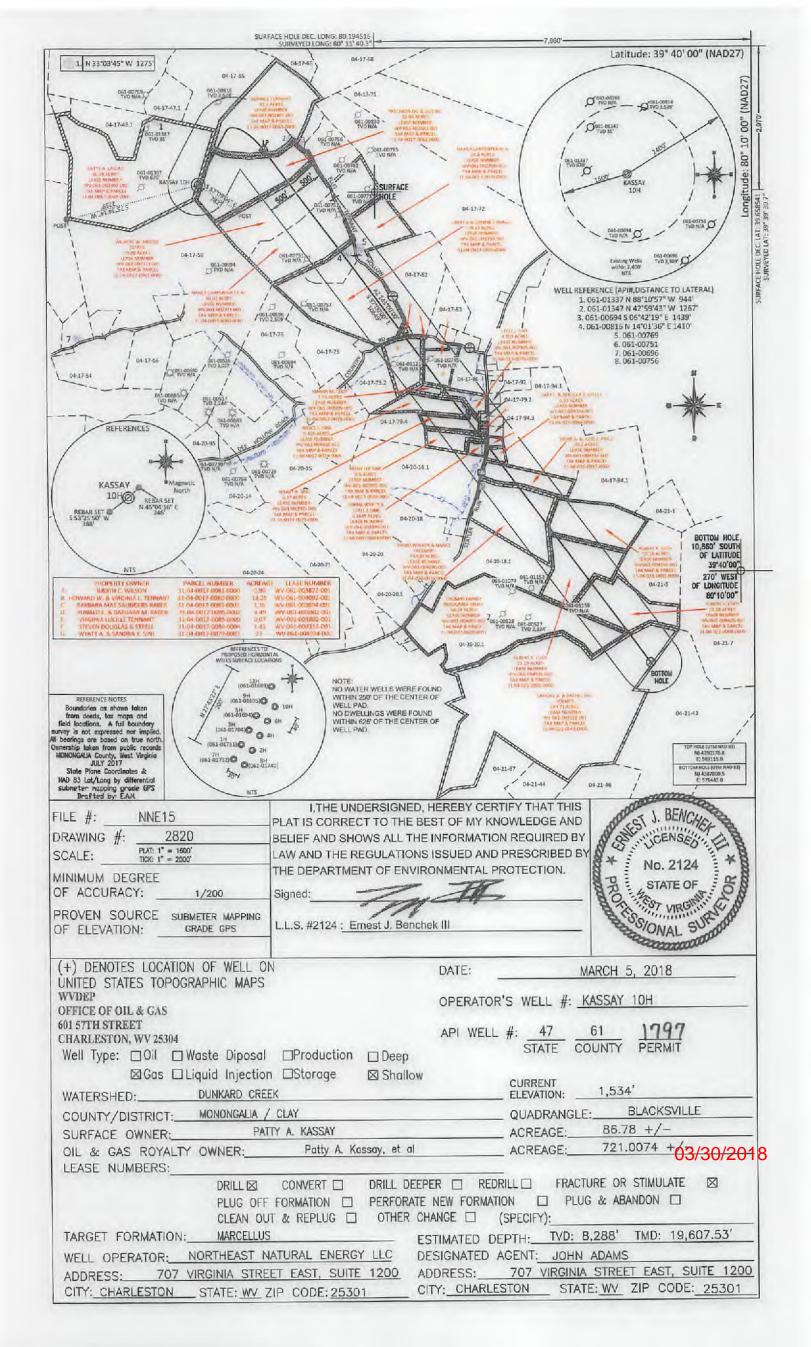
January 17, 2018

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WW-6A1 (5/13) Operator's Well No. Kassay 10H

#### 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:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Grantor, Lessor, etc.	Grantor, Lessor, etc. Grantee, Lessee, etc.	Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty

Please See Attachment

#### 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

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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 M. Medley

Its: Regulatory Manager

Page 1 of 14

NNE LEASE NUMBER	LESSOR NAME	LESSEE NAME	ROYALTY	BOOK/PG
VV-061-003302-002	Patty A. Kassay	Northeast Natural Energy LLC	0.125 OR GREATER	1506/143
VV-061-003654-001	Dorsey Neil Strickler and Nancy E. Strickler	Northeast Natural Energy LLC	DEED	1541/383
WV-061-003654-002	Lois Marie John	Northeast Natural Energy LLC	DEED	1541/379
WV-061-003654-003	Paul T. and Sharon Strickler	Northeast Natural Energy LLC	DEED	1537/194
MV-061-003654-004	Mary Rose Butler	Northeast Natural Energy LLC	DEED	1537/198
WV-061-003654-005	Wilbur Randolph Strickler	Northeast Natural Energy LLC	DEED	1557/257
WV-061-002401-001	Mary J. Pemberton	*Chesapeake Appalachia LLC	0.125 OR GREATER	1441/724
VV-061-002371-001	Mary R Mccullough	*Chesapeake Appalachia LLC	0.125 OR GREATER	1421/402
WV-061-002371-002	Mary Liming	*Chesapeake Appalachia LLC		1421/373
WV-061-002371-004	Kristi Virgie Vedis	*Chesapeake Appalachia LLC	0.125 OR GREATER	the same of the sa
WV-061-002371-005	Karen M Cain	*Chesapeake Appalachia LLC	0.125 OR GREATER	1425/283
MV-061-002371-006	Donna Lynn Chase	*Chesapeake Appalachia LLC	0.125 OR GREATER	1425/200
WV-061-002371-012	Myrtle L Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1426/122
WV-061-002371-013	Walden J Cook Jr	*Chesapeake Appalachia LLC	0.125 OR GREATER	1427/591
WV-061-002371-015	Twyla Hinds Snopps	*Chesapeake Appalachia LLC	0.125 OR GREATER	1428/185
VV-061-002371-016	Rebecca Gail Foley	*Chesapeake Appalachia LLC	0.125 OR GREATER	1427/186
WV-061-002371-017	C W Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1427/369
VV-061-002371-017	Donald R Sine And Irma Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1438/671
WV-061-002371-026	Darlene Eddy	*Chesapeake Appalachia LLC	0.125 OR GREATER	1445/158
	Jarrod Williams	*Chesapeake Appalachia LLC	THE PERSON NAMED TO A PARTY OF	1454/66
ALL A WILL SELECT PROPERTY.	Janet Varner	*Chesapeake Appalachia LLC		1454/365
VV-061-002371-033	Betty C Lyons	*Chesapeake Appalachia LLC	0.125 OR GREATER	
VV-061-002371-045	Pamela J Yurisko	Northeast Natural Energy LLC	0.125 OR GREATER	
NV-061-002371-043	Richard Tennant And Oneida P	Northeast Natural Energy LLC		1524/265
	Larry Blaine Tennant Estate	Northeast Natural Energy LLC	0.125 OR GREATER	1524/774
NV-061-002371-047	Loretta Fluharty	Northeast Natural Energy LLC	0.125 OR GREATER	1524/780
NV-061-002371-048	Rickey Jane Buchanan	Northeast Natural Energy LLC		1526/132
NV-061-002371-049	Alice Wise			1526/134
NV-061-002371-050	Emza Parsons	Northeast Natural Energy LLC Northeast Natural Energy LLC	0.125 OR GREATER	1530/21
NV-061-002371-051	E OF THE PURE PROPERTY.		0.125 OR GREATER	1553/623
WV-061-002371-052	Ginger K Estle	Northeast Natural Energy LLC		
NV-061-002371-053	Troy L Tennant And Ana Tennant	Northeast Natural Energy LLC	0.125 OR GREATER	1552/813
VV-061-002371-054	Donna Raye Raber And Fred Raber	Northeast Natural Energy LLC		1551/795
WV-061-002371-055	Tina L Fluharty And Richard Fluharty	Northeast Natural Energy LLC	0.125 OR GREATER	
	Lydia Robinson	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002371-057	Jennifer Sue Mccormick	Northeast Natural Energy LLC	0.125 OR GREATER	
VV-061-002371-058	Richard Keith Steele	Northeast Natural Energy LLC	0.125 OR GREATER	
O se The service and the servi	Jimmy Randall Tennant	Northeast Natural Energy LLC	0.125 OR GREATER	
VV-061-002371-060	Billy Ray Tennant And Brenda K	Northeast Natural Energy LLC	0.125 OR GREATER	1553/644
WV-061-002371-061	Rodney Wayne Tennant And Pamela	Northeast Natural Energy LLC	0.125 OR GREATER	
VV-061-002371-062	Roxana Cahill And Michael Cahill	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002371-063	Donald Dean Wheeler Jr And Kathy	Northeast Natural Energy LLC	0.125 OR GREATER	1562/180
NV-061-002371-064	Louise Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1568/799
VV-061-002371-065	Paul Varner	Northeast Natural Energy LLC	0.125 OR GREATER	-
	Steven Varner Sr And Tina Varner	Northeast Natural Energy LLC	0.125 OR GREATER	-
VV-061-002371-067	Mark Varner	Northeast Natural Energy LLC	0.125 OR GREATER	
NV-061-002371-068	Deborah Sudduth And Samual	Northeast Natural Energy LLC	0.125 OR GREATER	
NV-061-002371-069	Pamela Brown And Carl Brown	Northeast Natural Energy LLC	0.125 OR GREATER	_
NV-061-002371-070	Ruby E Vanfossin	Northeast Natural Energy LLC	0.125 OR GREATER	
NV-061-002371-071	Jody L Varner	Northeast Natural Energy LLC	0.125 OR GREATER	
		Northeast Natural Energy LLC		town in town

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WV-061-002371-074	Connie Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1570/313
MV-061-002371-075	Lisa Mccammon And William	Northeast Natural Energy LLC	0.125 OR GREATER	1570/315
NV-061-002371-076	James Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1570/317
WV-061-002371-077	Almeada J Barber	Northeast Natural Energy LLC	0.125 OR GREATER	1573/56
WV-061-002371-078	Sonya R David And Michael P Davis	Northeast Natural Energy LLC	0.125 OR GREATER	1575/258
WV-061-002371-079	Neal L Sine And Brenda Louise Sine	Northeast Natural Energy LLC	0.125 OR GREATER	1576/835
WV-061-002392-003	Kenneth F Clevenger	Northeast Natural Energy LLC	0.125 OR GREATER	1536/517
WV-061-002392-004	Helen L Cummings And David R	Northeast Natural Energy LLC	0.125 OR GREATER	1537/377
WV-061-003542-001	Velda E Moore	Northeast Natural Energy LLC	0.125 OR GREATER	1526/104
WV-061-003542-002	Rebecca H Haught Bailey	Northeast Natural Energy LLC	0.125 OR GREATER	1523/694
MV-061-003542-003	Lois R Roberetson An Dkenneth A	Northeast Natural Energy LLC	0.125 OR GREATER	1530/224
WV-061-003542-004	Sharon G Earl And Michael P Earl	Northeast Natural Energy LLC	0.125 OR GREATER	1530/756
WV-061-003542-005	Linda M Satterfield And Jon J	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003542-006	Delbert Mayles	Northeast Natural Energy LLC	0.125 OR GREATER	
VV-061-003542-007	Sarah Varner	Northeast Natural Energy LLC	0.125 OR GREATER	
VV-061-003542-008	Gary Varner	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003681-001	James W Joseph And Rita Joseph	Northeast Natural Energy LLC	0.125 OR GREATER	-
VV-061-003990-001	Albert Mercer	Northeast Natural Energy LLC	DEED	1589/482
VV-061-004200-001	Chesapeake Appalachia Lic	Northeast Natural Energy LLC	0.125 OR GREATER	1564/88
VV-061-004200-001	Xto Energy Inc.	Northeast Natural Energy LLC	0.125 OR GREATER	1578/472
VV-061-004382-001	Raymer Tennant	*Chesapeake Appalachia LLC	0.125 OR GREATER	
WV-061-002006-006	Freddy W Williams	*Chesapeake Appalachia LLC	0.125 OR GREATER	
Annual Annual State of the State of Sta	Everett A Sine Jr	*Chesapeake Appalachia LLC	0.125 OR GREATER	
WV-061-002006-007			0.125 OR GREATER	
NV-061-002006-008	Lyall A Sine Nola M Williams	*Chesapeake Appalachia LLC	0.125 OR GREATER	
NV-061-002006-009		*Chesapeake Appalachia LLC	0.125 OR GREATER	
VV-061-002006-010	Cheryl Lisabeth Gallagher	*Chesapeake Appalachia LLC	0.125 OR GREATER	
VV-061-002006-011	W Richard Williams	*Chesapeake Appalachia LLC		
VV-061-002006-012	Betty L Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	
VV-061-002006-013	Kimberly Sue Brummage	*Chesapeake Appalachia LLC		1399/608
VV-061-002006-014	Doris L Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1404/286
WV-061-002006-015	Mabel L Mcafee	*Chesapeake Appalachia LLC	0.125 OR GREATER	
NV-061-002006-016	Patricia Van Tassel	*Chesapeake Appalachia LLC	0.125 OR GREATER	1418/729
WV-061-002006-017	Celeste M Frickleton	*Chesapeake Appalachia LLC	0.125 OR GREATER	1399/614
VV-061-002006-018	Varner L Moore	*Chesapeake Appalachia LLC	0.125 OR GREATER	
WV-061-002006-019	Rita J Tanner	*Chesapeake Appalachia LLC	0.125 OR GREATER	
VV-061-002006-020	Delilah M Wilson	*Chesapeake Appalachia LLC	0.125 OR GREATER	
VV-061-002006-021	Ellen J Woodruff	*Chesapeake Appalachia LLC	0.125 OR GREATER	
VV-061-002006-022	Gail Church	*Chesapeake Appalachia LLC	0.125 OR GREATER	
WV-061-002006-023	Larry K Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	
VV-061-002006-024	Sue Ann Strickland	*Chesapeake Appalachia LLC	0.125 OR GREATER	1404/301
NV-061-002006-025	Donald Rex Williams	*Chesapeake Appalachia LLC	0.125 OR GREATER	1401/90
NV-061-002006-026	Carol I Wise	*Chesapeake Appalachia LLC	0.125 OR GREATER	1403/127
VV-061-002006-027	Leonard D Moore	*Chesapeake Appalachia LLC	0.125 OR GREATER	1403/130
VV-061-002006-028	Sandra Faye Wilson	*Chesapeake Appalachia LLC	0.125 OR GREATER	1405/232
WV-061-002006-029	Patricia Ann Hostutler	*Chesapeake Appalachia LLC	0.125 OR GREATER	1404/304
VV-061-002006-030	Pamela Rena Hall	*Chesapeake Appalachia LLC	0.125 OR GREATER	1405/877
VV-061-002006-031	Leonard L Tennant	*Chesapeake Appalachia LLC	0.125 OR GREATER	1405/880
VV-061-002006-032	Donald R Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1410/572
VV-061-002401-002	Robert Ora Wheeler And Paula K	*Chesapeake Appalachia LLC	0.125 OR GREATER	1441/14
VV-061-002401-003	Rebecca Lynne Strahler And Rodney	*Chesapeake Appalachia LLC	0.125 OR GREATER	1441/8
WV-061-002401-004	James Everett Williams Ii And Lisa W	*Chesapeake Appalachia LLC	0.125 OR GREATER	1441/224
NV-061-002401-005	Karen J Taylor And Kenneth Taylor	*Chesapeake Appalachia LLC	0.125 OR GREATER	1440/691
NV-061-002401-006	Joyce Ann Berga And Ronald Berga	*Chesapeake Appalachia LLC	0.125 OR GREATER	1440/686
NV-061-002401-007	Dennis Keith Williams And Sheryl	*Chesapeake Appalachia LLC	0.125 OR GREATERS	

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WV-061-002401-008	Susan L Michael And Chester L	*Chesapeake Appalachia LLC	0.125 OR GREATER	
	Sara Varner	Northeast Natural Energy LLC		
WV-061-003965-002	Gary Varner	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003990-002	Albert B Eddy Jr	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-002	Sonya R David And Michael P Davis	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-003	Sandra Faye Wilson And Wayne L	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-004	Rita J Tanner And Dennis Tannner	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-005	Tina L Fluharty And Richard Fluharty	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-006	Ginger K Estle	Northeast Natural Energy LLC	0.125 OR GREATER	_
WV-061-002350-007	Patricia Ann Hostutler	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-008	Troy L Tennant And Ana Tennant	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-009	Kimberly Sue Brummage And Daniel	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-010	Helen Cummings And David Russell	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-011	Kenneth F Clevenger	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-012	Doris L Sine	Northeast Natural Energy LLC	0.125 OR GREATER	-
WV-061-002350-013	Pamela Brown And Carl Brown	Northeast Natural Energy LLC	0.125 OR GREATER	1555/254
WV-061-002350-014	Lydia Robinson	Northeast Natural Energy LLC	0.125 OR GREATER	1562/379
WV-061-002350-015	Kristi Virgie Vedis	Northeast Natural Energy LLC	0.125 OR GREATER	1551/233
WV-061-002350-016	James W Joseph And Rita Joseph	Northeast Natural Energy LLC	0.125 OR GREATER	1562/217
WV-061-002350-017	Donald Rex Williams And Valerie R	Northeast Natural Energy LLC	0.125 OR GREATER	1568/307
WV-061-002350-018	Mark Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1557/417
WV-061-002350-019	Patricia Van Tassel And Richard Van	Northeast Natural Energy LLC	0.125 OR GREATER	1552/830
WV-061-002350-020	Myrtle Miller And Lyle Miller	Northeast Natural Energy LLC	0.125 OR GREATER	1564/264
WV-061-002350-021	Delilah M Sine	Northeast Natural Energy LLC	0.125 OR GREATER	1557/427
WV-061-002350-022	Steven Varner Sr And Tina Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1557/425
NV-061-002350-023	Lois R Robertson And Kenneth	Northeast Natural Energy LLC	0.125 OR GREATER	1557/433
WV-061-002350-024	Paul Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1552/434
WV-061-002350-025	Louise Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1567/831
NV-061-002350-026	Rebecca Bailey	Northeast Natural Energy LLC	0.125 OR GREATER	1557/429
WV-061-002350-027	James Varner	Northeast Natural Energy LLC		1557/431
WV-061-002350-028	Connie Varner	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-029	Gary Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1560/94
	Sarah Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1560/308
THE PERSON NAMED AND ADDRESS OF THE PARTY.	Robert Varner	Northeast Natural Energy LLC	0.125 OR GREATER	1560/300
	Peggy A Morris And Raymond G	Northeast Natural Energy LLC	0.125 OR GREATER	
	Tamela Varner	Northeast Natural Energy LLC	0.125 OR GREATER	
	Sharon G Earl And Micheal Earl	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-035	Sue Ann Strickland	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-002350-036	Karen Cain And Richard L Cain	Northeast Natural Energy LLC	0.125 OR GREATER	1564/258
WV-061-002350-037	Janet M Tennant	Northeast Natural Energy LLC	0.125 OR GREATER	1564/639
WV-061-002350-037	Richard Tennant And Oneida P	Northeast Natural Energy LLC	0.125 OR GREATER	1564/651
WV-061-002350-038	Loretta Fluharty	Northeast Natural Energy LLC	0.125 OR GREATER	1564/653
WV-061-002350-049	Ellen J Woodruff	Northeast Natural Energy LLC	0.125 OR GREATER	1559/466
WV-061-002350-040	Larry K Sine And Colleen Sine	Northeast Natural Energy LLC	0.125 OR GREATER	1563/440
	Joyce Ann Berga And Ronald Berga		0.125 OR GREATER	1564/210
NV-061-002350-042	Denzil Eugene Bell And Alberta Diane	Northeast Natural Energy LLC	DEED DEED	1561/176
NV-061-002350-043	Orville William Bell Sr And Josephine		DEED	1561/170
NV-061-002350-044		Northeast Natural Energy LLC		1561/377
NV-061-002350-045	Almeada Ruth Cosper	Northeast Natural Energy LLC	DEED	-
WV-061-002350-046	Carolyn Sue Greinert And Ralph	Northeast Natural Energy LLC	DEED	1561/239
WV-061-002350-047	Emily Alice Foley	Northeast Natural Energy LLC	DEED	1561/392
WV-061-002350-048	Charles Frederick Bell	Northeast Natural Energy LLC	DEED	561/425
WV-061-002350-049	Sharon Lemley And Terry R Lemeley	Northeast Natural Energy LLC	7.00	Q56Y/442 1986/394
WV-061-002350-050	Jackie Wilson And Peggy Sue Wilson	Northeast Natural Energy LLC	DEED Office of	122001344

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WV-061-002350-052	Rebecca Gail Foley	Northeast Natural Energy LLC	DEED	1564/695
WV-061-002350-053	Donald Dean Wheeler Jr And Kathy	Northeast Natural Energy LLC	DEED	1562/168
WV-061-002350-054	Jimmy Randall Tennant	Northeast Natural Energy LLC	0.125 OR GREATER	1573/42
WV-061-002350-055	Billy Ray Tennant And Brenda K	Northeast Natural Energy LLC	0.125 OR GREATER	1573/44
WV-061-002350-056	Rodney Wayne Tennant And Pamela	Northeast Natural Energy LLC	0.125 OR GREATER	1573/46
WV-061-002350-057	Roxana Cahill And Michael Cahill	Northeast Natural Energy LLC	0.125 OR GREATER	1575/540
WV-061-002350-058	Richard K Steele	*XTO Energy Inc.	0.125 OR GREATER	1448/248
WV-061-002350-059	Donna R Raber	*XTO Energy Inc.	0.125 OR GREATER	1448/251
WV-061-002350-060	Dolores Michael	*XTO Energy Inc.	0.125 OR GREATER	1445/275
WV-061-002350-061	Walden J Cook Jr And Yvonne L Cook	*XTO Energy Inc.	0.125 OR GREATER	1586/454
WV-061-002350-062	Stone Hill Minerals Holdings Llc	Northeast Natural Energy LLC	0.125 OR GREATER	1587/197
WV-061-003149-001	Lyall A Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1440/630
WV-061-003149-002	Pamela Rena Hall	*Chesapeake Appalachia LLC	<del></del>	1441/825
WV-061-003149-003	Rhonda L Moore	*Chesapeake Appalachia LLC	0.125 OR GREATER	1441/837
WV-061-003149-004	Donald R Sine And Irma Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1441/829
WV-061-003149-005	Neal L Sine And Brenda Louise Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1442/172
	Sandra Faye Wilson And Wayne L	*Chesapeake Appalachia LLC		1442/549
WV-061-003149-006 WV-061-003149-007	Patricia Ann Hostutler	*Chesapeake Appalachia LLC		1442/553
		*Chesapeake Appalachia LLC		1442/557
	Mary E Liming Rickey Jane Buchanan And James A	*Chesapeake Appalachia LLC		1444/300
	Mary R Mccullough	*Chesapeake Appalachia LLC		1444/300
	Leonard L Tennant And Susan P		<del></del>	1445/168
		*Chesapeake Appalachia LLC		<del></del>
	Roger L Sine And Jane A Sine	*Chesapeake Appalachia LLC	<del></del>	1445/450
	Mabel L Mcafee	*Chesapeake Appalachia LLC	<del></del>	1445/446
WV-061-003149-014	Nola M Williams	*Chesapeake Appalachia LLC	0.125 OR GREATER	1446/642
WV-061-003149-015	Michelle Dawn Johnson And Eric B	*Chesapeake Appalachia LLC		1446/617
WV-061-003149-016		*Chesapeake Appalachia LLC	0.125 OR GREATER	1447/405
	Diana Beth Thomas And Curtis L	*Chesapeake Appalachia LLC	0.125 OR GREATER	1447/409
NV-061-003149-018	Freddy W Williams And Norma J	*Chesapeake Appalachia LLC		1447/413
WV-061-003149-019	Varner L Moore And Mary E Moore	*Chesapeake Appalachia LLC		1447/417
WV-061-003149-020	Leonard D Moore And Velda Moore	*Chesapeake Appalachia LLC		1447/421
WV-061-003149-021	Gail Church And Victor R Church	*Chesapeake Appalachia LLC		1447/425
NV-061-003149-022	Carol I Wise And Victor E Wise	*Chesapeake Appalachia LLC	0.125 OR GREATER	1447/429
NV-061-003149-026	William R Williams And Peggy	*Chesapeake Appalachia LLC	0.125 OR GREATER	1451/454
WV-061-003149-028	Susan Lynette Michael And Chester L	*Chesapeake Appalachia LLC	0.125 OR GREATER	1454/435
NV-061-003149-029	Cheryl Lisabeth Gallagher And	*Chesapeake Appalachia LLC	0.125 OR GREATER	1454/427
WV-061-003149-031	Dennis Keith Williams And Sheryl	*Chesapeake Appalachia LLC	0.125 OR GREATER	1454/410
WV-061-003149-032	Everett A Sine Jr And Betty L Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1454/379
WV-061-003149-033	Raymer Tennant	*Chesapeake Appalachia LLC	0.125 OR GREATER	1454/682
WV-061-003149-034	Celeste M Frickleton	*Chesapeake Appalachia LLC	0.125 OR GREATER	1454/666
	James Everett Williams Ii And Lisa W	*Chesapeake Appalachia LLC		1454/873
WV-061-003149-036	Karen J Taylor And Kenneth Taylor	*Chesapeake Appalachia LLC	0.125 OR GREATER	1454/869
NV-061-003149-037	Rebecca Lynne Strahler And Rodney	*Chesapeake Appalachia LLC	0.125 OR GREATER	1456/756
WV-061-003149-038	Alice Wise	*Chesapeake Appalachia LLC		1462/537
WV-061-003149-039	Betty C Lyons	*Chesapeake Appalachia LLC	0.125 OR GREATER	1463/569
WV-061-003149-040	Pamela J Yurisko	Northeast Natural Energy LLC	0.125 OR GREATER	1521/594
WV-061-003149-041	Mary Jane Pemberton	Northeast Natural Energy LLC		1553/200
VV-061-003149-042	Robert Ora Wheeler And Paula K	Northeast Natural Energy LLC		1553/282
WV-061-003149-043	Donna Lynn Chase And Brian D Chase			1554/424
WV-061-003149-045	Twyla R Snopps And Kenneth E	Northeast Natural Energy LLC		1559/178
WV-061-003149-046	Linda M Satterfield And Jon J	Northeast Natural Energy LLC		1560/106
WV-061-003149-047	Jody L Varner	Northeast Natural Energy LLC		1557/411
WV-061-003149-047	Lisa Mccammon And William	Northeast Natural Energy LLC	0.125 OR GREATER	

WV-061-003149-050	Ruby E Vanfossín	Northeast Natural Energy LLC	0.125 OR GREATER	1562/345
WV-061-003149-051	Deborah Sudduth And Samual	Northeast Natural Energy LLC	0.125 OR GREATER	1559/458
WV-061-003149-052	Clarence W Sine	Northeast Natural Energy LLC	0.125 OR GREATER	1559/460
WV-061-003149-053	Almeada J Barber	Northeast Natural Energy LLC	0.125 OR GREATER	1572/661
WV-061-003853-001	Doris Jean Wilson And William	Northeast Natural Energy LLC	DEED	1550/222
WV-061-003872-001	Don R Williams And Valerie R	Northeast Natural Energy LLC	0.125 OR GREATER	1576/426
WV-061-004157-001	Haymaker Properties Lp	Northeast Natural Energy LLC	0.125 OR GREATER	1567/245
WV-061-003271-001	Chesapeake Appalachia Llc	*Chesapeake Appalachia LLC	0.125 OR GREATER	1487/244
WV-061-003271-002	Statoil Usa Onshore Properties	*Statoil USA Onshore Properties Inc	0.125 OR GREATER	1488/744
WV-061-003888-001	Delbert Mayles	Northeast Natural Energy LLC	0.125 OR GREATER	1568/311
WV-061-002101-001	Betty L Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1399/660
WV-061-002101-002	Kimberly Sue Brummage	*Chesapeake Appalachia LLC	0.125 OR GREATER	1399/663
WV-061-002101-003	Doris L Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1404/331
WV-061-002101-004	Mabel L Mcafee	*Chesapeake Appalachia LLC	0.125 OR GREATER	1399/666
WV-061-002101-005	Patricia Van Tassell	*Chesapeake Appalachia LLC	0.125 OR GREATER	1399/669
WV-061-002101-006	Celeste M Frickleton	*Chesapeake Appalachia LLC	0.125 OR GREATER	1399/672
WV-061-002101-007	Varner L Moore	*Chesapeake Appalachia LLC	0.125 OR GREATER	1401/105
WV-061-002101-007	Rita J Tanner	*Chesapeake Appalachia LLC	0.125 OR GREATER	1401/103
WV-061-002101-008	Gail Church	*Chesapeake Appalachia LLC	0.125 OR GREATER	1400/479
WV-061-002101-009	Delilah M Wilson	*Chesapeake Appalachia LLC	0.125 OR GREATER	1400/473
	Sue Ann Strickland	*Chesapeake Appalachia LLC		
WV-061-002101-011	Ellen J Woodruff		0.125 OR GREATER 0.125 OR GREATER	1404/340
WV-061-002101-012	Collins of the collin	*Chesapeake Appalachia LLC	The second of th	
WV-061-002101-013	Larry K Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1404/346
WV-061-002101-014	Donald Rex Williams	*Chesapeake Appalachia LLC	0.125 OR GREATER	1401/108
WV-061-002101-015	Carol I Wise	*Chesapeake Appalachia LLC	0.125 OR GREATER	1403/136
WV-061-002101-016	Sandra Faye Wilson And Wayne L	*Chesapeake Appalachia LLC	0.125 OR GREATER	1405/244
WV-061-002101-017	Patricia Ann Hostutler	*Chesapeake Appalachia LLC	0.125 OR GREATER	1404/349
WV-061-002101-018	Leonard L Tennant	*Chesapeake Appalachia LLC	D.125 OR GREATER	
WV-061-002101-019	Pamela Rena Hall	*Chesapeake Appalachia LLC	0.125 OR GREATER	1405/883
WV-061-002101-020	Donald R Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1410/557
WV-061-002101-021	Peggy A Morris	*Chesapeake Appalachia LLC	0.125 OR GREATER	1410/554
WV-061-002101-023	Raymer Tennant	*Chesapeake Appalachia LLC	0.125 OR GREATER	1396/641
WV-061-002101-024	Freddy W Williams	*Chesapeake Appalachia LLC	0.125 OR GREATER	1398/294
WV-061-002101-025	Everett A Sine Jr	*Chesapeake Appalachia LLC	0.125 OR GREATER	1398/297
WV-061-002101-026	Lyall A Sine	*Chesapeake Appalachia LLC	0.125 OR GREATER	1399/651
WV-061-002101-027	Nola M Williams	*Chesapeake Appalachia LLC	0.125 OR GREATER	1399/657
WV-061-002101-028	W Richard Williams	*Chesapeake Appalachia LLC	0.125 OR GREATER	1398/528
WV-061-002101-029	And Nelson D Gallagher	*Chesapeake Appalachia LLC	0.125 OR GREATER	1398/531
WV-061-003996-001	Jacqueline Straight	Northeast Natural Energy LLC	0.125 OR GREATER	1562/27
WV-061-003996-002	Warren E Barth	Northeast Natural Energy LLC	0.125 OR GREATER	1562/154
WV-061-003996-003	Paul E. Kurtzwell	Northeast Natural Energy LLC	0.125 OR GREATER	1597/399
WV-061-003996-004	John Riggs Jr	Northeast Natural Energy LLC	0.125 OR GREATER	1564/24
WV-061-003996-005	Richard Glenn Gump	Northeast Natural Energy LLC	INACTIVE	1564/30
WV-061-003996-006	Randall Scott Albino	Northeast Natural Energy LLC	0.125 OR GREATER	1564/142
WV-061-003996-007	Regina L And Robert M Black	Northeast Natural Energy LLC	0.125 OR GREATER	1564/140
WV-061-003996-008	Lorrie E And Jeff B Smith	Northeast Natural Energy LLC	D.125 OR GREATER	1564/138
WV-061-003996-009	Lila N And Robert Lee Mercer	Northeast Natural Energy LLC	0.125 OR GREATER	1566/214
WV-061-003996-010	Sybil M Straight	Northeast Natural Energy LLC	DEED	1563/288
WV-061-003996-011	Michael Haught	Northeast Natural Energy LLC	DEED	1579/841
MV-061-003996-012	Francis And Richard A Mercer	Northeast Natural Energy LLC	INACTIVE	1579/213
WV-061-003996-013	Mary E Schipono	Northeast Natural Energy LLC	INACTIVE	1579/236
WV-061-003995-014	Ruth Ann Cutrone	Northeast Natural Energy LLC	INACTIVE	1579/215
WV-061-003996-015	Bradley Scott Hetrick	Northeast Natural Energy LLC	INACTIVE	RECENE
WV-061-003996-016	Deborah Dawn Davis	Northeast Natural Energy LLC		9519/2190



WV-061-003996-017	Kathy Jean Denham	Northeast Natural Energy LLC	INACTIVE	1579/221
WV-061-003996-018	Jeffery Wayne Fetty	Northeast Natural Energy LLC	INACTIVE	1579/223
WV-061-003996-027	Praben Mark Kurtzwell	Northeast Natural Energy LLC	0.125 OR GREATER	1581/305
WV-061-003996-028	Gary D Yost	Northeast Natural Energy LLC	INACTIVE	1584/776
WV-061-003996-029	Lorri E Kuhn	Northeast Natural Energy LLC	INACTIVE	1584/778
WV-061-003996-030	Kelli D Wilson	Northeast Natural Energy LLC	INACTIVE	1584/780
WV-061-003996-031	Donald E Straight	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-004314-001	Reed Energy Services Llc.	Northeast Natural Energy LLC	DEED	1580/200
WV-061-004507-001	Richard Glenn Gump	Northeast Natural Energy LLC	DEED	1589/35
WV-061-003905-001	Dwg Oil & Gas Acquisitions Llc	Northeast Natural Energy LLC	DEED	124/34
WV-061-004458-001	Kelli D Wilson	Northeast Natural Energy LLC	0.125 OR GREATER	1585/1
WV-061-004458-002	Lorri E Kuhn	Northeast Natural Energy LLC	0.125 OR GREATER	1584/839
WV-061-004458-003	Gary D Yost	Northeast Natural Energy LLC	0.125 OR GREATER	1584/845
WV-061-004458-004	Kathy Jean Denhem	Northeast Natural Energy LLC	0.125 OR GREATER	1585/3
WV-061-004458-005	Bradley Scott Hetrick	Northeast Natural Energy LLC	0.125 OR GREATER	1585/7
WV-061-004458-006	Frank Nimrod Straight And Patsy	Northeast Natural Energy LLC		1585/13
WV-061-004458-007	Jeffrey Wayne Fetty	Northeast Natural Energy LLC	0.125 OR GREATER	1585/17
WV-061-004458-008	Mary E Schipono	Northeast Natural Energy LLC	0.125 OR GREATER	1584/837
WV-061-004458-009	Deborah Dawn Davis	Northeast Natural Energy LLC		1584/841
WV-061-004458-010	Richard A Mercer And Francis Mercer		0.125 OR GREATER	1584/843
WV-061-004458-011	Ruth Ann Cutrone	Northeast Natural Energy LLC		1584/847
WV-061-004458-012	Jacqueline Straight	Northeast Natural Energy LLC		1584/829
WV-061-004458-013	Robert L Mercer And Lila N Mercer	Northeast Natural Energy LLC	0.125 OR GREATER	1589/184
WV-061-004458-013	David B Tennant And David Blair	Northeast Natural Energy LLC	DEED	1590/280
WV-061-004458-015	Clifton E Tennant Sr	Northeast Natural Energy LLC	DEED	1590/404
WV-061-004458-015	Patricia A Whitehead	Northeast Natural Energy LLC	DEED	1590/283
WV-061-004458-017	Wilma G Williams	Northeast Natural Energy LLC	DEED	1590/286
WV-061-004458-018	Randall Scott Albino	Northeast Natural Energy LLC	0.125 OR GREATER	1590/304
	Gregory L Tennant	Northeast Natural Energy LLC	DEED.	1591/261
WV-061-004458-019			DEED	1591/264
WV-061-004458-020	Kathy Brown	Northeast Natural Energy LLC		
WV-061-004458-021	Monica Miller Deborah L Hill	Northeast Natural Energy LLC	DEED	1591/267
WV-061-004458-022	110007107110000	Northeast Natural Energy LLC	DEED	1591/298
WV-061-004458-023	Judith Williams	Northeast Natural Energy LLC	DEED	1591/301
WV-061-004458-024	William Raymond Swick Jr	Northeast Natural Energy LLC	DEED	1591/343
WV-061-004458-025	Sybil M Straight	Northeast Natural Energy LLC	DEED	1591/346
WV-061-004458-026	John Vernon Williams	Northeast Natural Energy LLC	DEED	1591/349
WV-061-004458-027	Denzil C Wilson	Northeast Natural Energy LLC	DEED	1591/358
WV-061-004458-028	Sara Beth Hensley	Northeast Natural Energy LLC	DEED	1591/361
WV-061-004458-029	Krishnan R Lannen	Northeast Natural Energy LLC	DEED	1591/364
WV-061-004458-030	Donna Luketic	Northeast Natural Energy LLC	DEED	1591/367
WV-061-004458-031	Betty Lea Vandetta	Northeast Natural Energy LLC	0.125 OR GREATER	1591/272
WV-061-004458-032	Connie Sue Wolfe	Northeast Natural Energy LLC	0.125 OR GREATER	1591/274
WV-061-004458-033	Ronald Walls	Northeast Natural Energy LLC	0.125 OR GREATER	1591/276
WV-061-004458-034	Lorrie E Smith And Jeff B Smith	Northeast Natural Energy LLC	0.125 OR GREATER	1591/278
WV-061-004458-035	Mary Fluharty	Northeast Natural Energy LLC	DEED	1591/844
WV-061-004458-036	Gary W Tennant	Northeast Natural Energy LLC	DEED	1592/1
WV-061-004458-037	Douglas W Tennant	Northeast Natural Energy LLC	DEED	1592/8
WV-061-004458-038	Richard Joseph Wilson	Northeast Natural Energy LLC	DEED	1593/792
WV-061-004458-039	James Earl Cooper	Northeast Natural Energy LLC	DEED	1593/799
WV-061-004458-040	Helen Kay Stone	Northeast Natural Energy LLC	DEED	1593/826
WV-061-004458-041	Johnny Eugene Williams	Northeast Natural Energy LLC	DEED	1593/833
WV-061-004458-042	Barbara Ann Bonnell	Northeast Natural Energy LLC		1593/693
WV-061-004458-043	Sarah Kathy Riggi And Michael Riggi	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-004458-044	John A Swiger And Julie Swiger	Northeast Natural Energy LLC	0.125 OR GREATERS	9594/897

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WV-061-004458-045	Gary S Williams	Northeast Natural Energy LLC	0.125 OR GREATER	1593/699
WV-061-004458-046	Martha Ellen Peters	Northeast Natural Energy LLC	DEED	1594/756
WV-061-004458-047	Terri Ann Marratta	Northeast Natural Energy LLC	DEED	1594/759
	Joyce E Walls	Northeast Natural Energy LLC	DEED	1594/762
WV-061-004458-049	Linda Lou Barker	Northeast Natural Energy LLC	DEED	1595/40
WV-061-004458-050	Susan Renee Edwards	Northeast Natural Energy LLC	DEED	1595/43
WV-061-004458-051	Betty Lou Morris	Northeast Natural Energy LLC	DEED	1595/834
WV-061-004458-052	Robert Wayne Eddy	Northeast Natural Energy LLC	DEED	1595/840
WV-061-004458-053	Mary Josephine Bryant	Northeast Natural Energy LLC	DEED	1595/46
WV-061-004458-054	Melvin Williams	Northeast Natural Energy LLC	DEED	1595/49
WV-061-004458-055	Timothy Alan Walls And Jennifer K	Northeast Natural Energy LLC	DEED	1595/113
WV-061-004458-056	David Colwell Gallatin	Northeast Natural Energy LLC	DEED	1595/843
WV-061-004458-057	Jane Ann Jones	Northeast Natural Energy LLC	DEED	1595/807
WV-061-004458-058	Linda M Tennant	Northeast Natural Energy LLC	DEED	1595/816
WV-061-004458-059	Alice M Milliron	Northeast Natural Energy LLC	0.125 OR GREATER	1595/269
WV-061-004458-060	Robin Trotto	Northeast Natural Energy LLC	0.125 OR GREATER	1595/456
WV-061-004458-061	Shirley Mohamed	Northeast Natural Energy LLC	0.125 OR GREATER	1595/458
WV-061-004458-062	John Douglas Trotto	Northeast Natural Energy LLC	0.125 OR GREATER	1595/460
WV-061-004458-063	Michael Angelo Trotto	Northeast Natural Energy LLC	0.125 OR GREATER	1595/462
WV-061-004458-064	Daryl Glenn Gallatin And Kristine M	Northeast Natural Energy LLC	DEED	1597/274
WV-061-004458-065	Heather M Lannen		DEED	1597/277
	Sandra Jo And Edwin L Merrifield	<u> </u>	0.125 OR GREATER	1597/209
WV-061-004458-067	Clarence W Moore Ii And Delores J			1597/211
	Gregg Stephen Moore And Barbara		0.125 OR GREATER	1597/555
	William Elsworth Swiger Jr		DEED	1600/353
	Regina L Black And Robert M Black			1598/405
WV-061-004458-071	Darrell Conaway And Alice M			1598/407
	Francis Dwight Conaway And Cheryl			1598/409
WV-061-004458-073	John G Conaway And Patricia D		0.125 OR GREATER	1598/411
	Suzan Hood		0.125 OR GREATER	23307 122
WV-061-004458-075	Charles Nathan Tennant		0.125 OR GREATER	1598/761
	Susan Lynn Sandor		0.125 OR GREATER	1598/759
	Robert Dwaine Gump Jr		DEED	1600/550
WV-061-004458-077	Donald L Hawkins And Bonnie K		DEED	1600/585
	Robert Jennings Michael	l	DEED	1600/559
				1600/539
	Elaine S Chandler		DEED	
WV-061-004458-081	Chantal Key Freeland	Northeast Natural Energy LLC	DEED 0.13E OR GREATER	1600/659
	Merle Lee Hawkins			1598/763
WV-061-004458-083	Cynthia Sue Phillips And Gregory W	Northeast Natural Energy LLC		1598/765
	Martha Habig	Northeast Natural Energy LLC	DEED	1600/547
WV-061-004458-085	Warren E Barth	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-004458-13	Lila N And Robert Lee Mercer	Northeast Natural Energy LLC	0.125 OR GREATER	1589/184
	Richard Allen Mercer		0.125 OR GREATER	1574/813
	Ruth Ann Cutrone			1574/814
	Nancy C Yost	*XTO Energy Inc.		1574/815
	Mary Ellen Schipono	*XTO Energy Inc.	0.125 OR GREATER	1574/819
	Ellen Ruth Yost	*XTO Energy Inc.		1574/820
	Willa Jean Hetrick	*XTO Energy Inc.		1574/817
	Jennie L Allen			1574/818
	Frank N Straight		0.125 OR GREATER	1574/816
	Brian L Sine		INACTIVE	1562/162
WV-061-003998-002	Lyall J Sine	Northeast Natural Energy LLC	INACTIVE	1564/200
WV-061-003998-003	Aleta J Tenney	Northeast Natural Energy LLC	INACTIVE	BEGEIVE
WV-061-003998-004	Wyatt A Sine	Northeast Natural Energy LLC	INACTIVE Office	esetzQileand

Bruce E Sine	Northeast Natural Energy LLC	INACTIVE	1564/42
Joy Smith	Northeast Natural Energy LLC	0.125 OR GREATER	1572/34
Shuman Inc	Northeast Natural Energy LLC	0.125 OR GREATER	1568/775
Heritage Resources - Marcellus	Northeast Natural Energy LLC	0.125 OR GREATER	1570/835
Piney Holdings Inc	Northeast Natural Energy LLC	0.125 OR GREATER	1568/777
Nimrod A. Tennant And Margaret J.	Dewitt, Ira	0.125 OR GREATER	26/359
Shuman Inc	Northeast Natural Energy LLC	0.125 OR GREATER	1567/678
Katherin L. Valls	Northeast Natural Energy LLC	0.125 OR GREATER	1591/738
Douglas Elliot Smith	Northeast Natural Energy LLC	0.125 OR GREATER	1591/740
	Northeast Natural Energy LLC	0.125 OR GREATER	1592/597
		0.125 OR GREATER	1592/599
Douglas Elliot Smith		0.125 OR GREATER	1596/588
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			1600/689
			1561/563
			1557/170
			1559/795
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			1559/439
			1561/323
			1561/209
			1570/119
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			1570/119
			1570/119
			1570/119
			1570/119
			1570/119
			1570/119
			1578/132
	Northeast Natural Energy LLC		1596/445
David Colwell Gallatin	Northeast Natural Energy LLC	DEED	1570/119
Patricia A. Whitehead	Northeast Natural Energy LLC	DEED	1570/119
Gary W. Tennant	Northeast Natural Energy LLC	DEED	1570/119
Douglas W. Tennant And Barbara	Northeast Natural Energy LLC	DEED	1570/119
Deborah L. Hill	Northeast Natural Energy LLC	DEED	1570/119
Gregory L. Tennant	Northeast Natural Energy LLC	DEED	1570/119
Barbara A. Bonnell, Aka Barbara A.	Northeast Natural Energy LLC	DEED	1570/119
Susan R. Edwards And David	Northeast Natural Energy LLC	DEED R	1570/file
SUSUIT IL EUTIBLUS FILO DOVIG			9590/979
	Shuman Inc Heritage Resources - Marcellus Piney Holdings Inc Nimrod A. Tennant And Margaret J. Shuman Inc Katherin L. Valls Douglas Elliot Smith Joy Smith Deborah S. Couper Douglas Elliot Smith Deborah S. Couper Katharine L. Valls, a/k/a Katharine Mary D. Fluharty And Roger Fluharty Eugene Armstrong Judith Williams Monica Miller David B. Tennant And Patricia J. Clifton E. Tennant And Loretta Olan W. Tennant Wilma G. Williams Denzil C. Wilson Martha Peters Kathy Brown Sara Beth Hensley And Ronald H Bettty L. Vandetta Connie S. Wolfe Ronald D. Walls And Sue Walls Joyce E. Walls Melvin Carl Williams And Jean A. Terri Ann Marratta Virginia Ellen Stiles Dortohy Jean Johns Mary Margaret Headlee David S. Bracken And Jane A. Bracken Linda M. Tennant Timonthy Alan Walls And Jennifer Johnny Eugene Williams John Vernon Williams And Catha William Raymond Swick, Jr. Krishnan R. Lannen Jane Ann Jones Heather M. Lannen David Colwell Gallatin Patricia A. Whitehead Gary W. Tennant Douglas W. Tennant Deborah L. Hill Gregory L. Tennant Barbara A. Bonnell, Aka Barbara A.	Shuman Inc Heritage Resources - Marcellus Piney Holdings inc Northeast Natural Energy LLC Northeast Natural Energy LLC Northeast Natural Energy LLC Northeast Natural Energy LLC Shuman Inc Northeast Natural Energy LLC Shuman Inc Northeast Natural Energy LLC Shuman Inc Northeast Natural Energy LLC Northeast Natural Energy LLC Douglas Elliot Smith Northeast Natural Energy LLC Deborah S. Couper Northeast Natural Energy LLC David B. Tennant And Roger Fluharty Northeast Natural Energy LLC Northeast Natural Energy	Shuman Inc   Northeast Natural Energy LLC   0.125 OR GREATER   Heritage Resources - Marcellus   Northeast Natural Energy LLC   0.125 OR GREATER   Nimrod A. Fernant And Margaret J.   Dewitt, Ira   0.125 OR GREATER   Nimrod A. Fernant And Margaret J.   Dewitt, Ira   0.125 OR GREATER   Nimrod A. Fernant And Margaret J.   Dewitt, Ira   0.125 OR GREATER   Northeast Natural Energy LLC   0.125 OR GREATER   Northeast Natural Energy LLC   0.125 OR GREATER   Douglas Elliot Smith   Northeast Natural Energy LLC   0.125 OR GREATER   Doy Smith   Northeast Natural Energy LLC   0.125 OR GREATER   Doy Smith   Northeast Natural Energy LLC   0.125 OR GREATER   Doy Smith   Northeast Natural Energy LLC   0.125 OR GREATER   Douglas Elliot Smith   Northeast Natural Energy LLC   0.125 OR GREATER   Deborah S. Couper   Northeast Natural Energy LLC   0.125 OR GREATER   Deborah S. Couper   Northeast Natural Energy LLC   0.125 OR GREATER   Deborah S. Couper   Northeast Natural Energy LLC   0.125 OR GREATER   Deborah S. Couper   Northeast Natural Energy LLC   0.125 OR GREATER   Northeast Natural Energy LLC   0.125 OR GREATER   Northeast Natural Energy LLC   DEED   Deborah S. Couper   Northeast Natural Energy LLC   0.125 OR GREATER   Northeast Natural Energy LLC   DEED   Deborated Miller   Northeast Natural Energ

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Daryl Glenn Gallatin And Kristine M.	Northeast Natural Energy LLC	DEED	1570/119
James Earl Cooper	Northeast Natural Energy LLC	DEED	1570/119
Robert D. Gump, Jr. And Kelly S.	Northeast Natural Energy LLC	DEED	1570/119
Chantal Kay Freeland	Northeast Natural Energy LLC	DEED	1570/119
David R. Tennant, Jr.	Northeast Natural Energy LLC	DEED	1570/119
Sybil Larita Tennant	Northeast Natural Energy LLC	DEED	1570/119
Shelia Anderson-Freeland	Northeast Natural Energy LLC	DEED	1578/132
Donna Luketic And Donald Luketic	Northeast Natural Energy LLC	DEED	1569/567
Richard Joseph Wilson	Northeast Natural Energy LLC	DEED	1570/119
Carol M. Standifrod And Grant W.	Northeast Natural Energy LLC	DEED	1577/12
Thomas A. Morris	Northeast Natural Energy LLC	0.125 OR GREATER	1595/763
Mary Catherine Walls	Northeast Natural Energy LLC	0.125 OR GREATER	1563/753
	James Earl Cooper Robert D. Gump, Jr. And Kelly S. Chantal Kay Freeland David R. Tennant, Jr. Sybil Larita Tennant Shelia Anderson-Freeland Donna Luketic And Donald Luketic Richard Joseph Wilson Carol M. Standifrod And Grant W. Thomas A. Morris	James Earl Cooper Northeast Natural Energy LLC Robert D. Gump, Jr. And Kelly S. Northeast Natural Energy LLC Chantal Kay Freeland Northeast Natural Energy LLC David R. Tennant, Jr. Northeast Natural Energy LLC Sybil Larita Tennant Northeast Natural Energy LLC Shelia Anderson-Freeland Northeast Natural Energy LLC Donna Luketic And Donald Luketic Northeast Natural Energy LLC Richard Joseph Wilson Northeast Natural Energy LLC Carol M. Standifrod And Grant W. Northeast Natural Energy LLC Thomas A. Morris Northeast Natural Energy LLC	James Earl Cooper Robert D. Gump, Jr. And Kelly S. Northeast Natural Energy LLC DEED Chantal Kay Freeland Northeast Natural Energy LLC Deed David R. Tennant, Jr. Northeast Natural Energy LLC Sybil Larita Tennant Northeast Natural Energy LLC Deed Shelia Anderson-Freeland Northeast Natural Energy LLC Deed Donna Luketic And Donald Luketic Northeast Natural Energy LLC Deed Richard Joseph Wilson Northeast Natural Energy LLC Deed Carol M. Standifrod And Grant W. Northeast Natural Energy LLC Deed Thomas A. Morris Northeast Natural Energy LLC Deed Oolean

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Office of Oil and Gas

MAR 1 6 2018

Chesapeake Appalachia, LLC.

Northeast Natural Energy
Assignment
BK 120/769

RECEIVED
Office of Oil and Gas

MAR 1 6 2018

Chesapeake Appalachia, LLC.
And

4706101797

Statoil USA Onshore Properties Inc.

Northeast Natural Energy
Assignment
BK 120/769

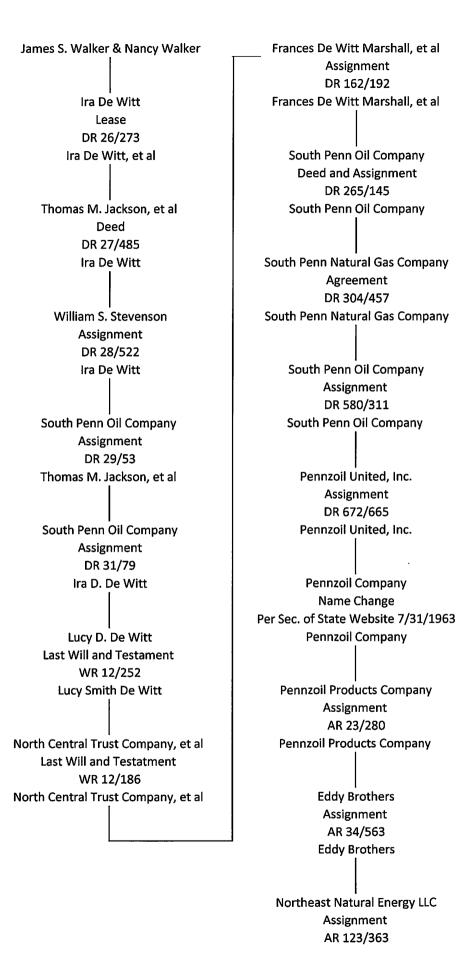
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Northeast Natural Energy
Assignment
BK 132/311

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November 15, 2017

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

RE: Kassay 6H and 10H

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 Country Road (State Route 25/3) and Dee Hollow Road (State Route 919) on the enclosed survey plat.

Sincerely,

Jeannie Morgan Johnson, CPL

J Mergar Johnson

Vice President - Land Operations

Enclosure

RECEIVED
Office of Oil and Gas

MAR 1 6 2018

Date of Notice Certification: 11/20/2017

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

API No. 47-

If land as follows:  //irginia  ville  rd Creek  //irginia Code § 22-6A-7(b), cretary, shall be verified and owners of the surface deser if by subsections (b) and (c), see owner notice of entry to seection (b), section sixteen of	UTM NAD 83  Public Road Acce Generally used fa  every permit application file shall contain the following infoibed in subdivisions (1), (2) are section sixteen of this article; (ii) survey pursuant to subsection (of this article were waived in	Easting: Northing: ess: rm name:  d under this rmation: (14 nd (4), subs ) that the rec a), section t writing by t	569115.0 4390178.8 County Route 25 Kessay  s section shall A certification (b), security section (c), security security section (c), security s	/3 (Yank Hollow Read)  I be on a form as may be on from the operator that (i) ction ten of this article, the deemed satisfied as a result
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	☐ WRITTEN WAIVER E (PLEASE ATTACH)	BY SURFAC	CE OWNER	
OF PLANNED OPERATION				RECEIVED
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DF APPLICATION				RECEIVED
	Virginia Code § 22-6A, the Oas properly served the require LTHAT APPLY OF SEISMIC ACTIVITY OF ENTRY FOR PLAT SUR OF INTENT TO DRILL or	Jordan Seen completed by the applicant.  Jordan Seen completed by the Operation has attached proof to the applicant has atta	6A-11(b), the applicant shall tender proof of and certify to the secretary been completed by the applicant.  Virginia Code § 22-6A, the Operator has attached proof to this Notice Coas properly served the required parties with the following:  L THAT APPLY  OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTED.  OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CODE INTENT TO DRILL or NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)  OF PLANNED OPERATION	6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice been completed by the applicant.  Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification as properly served the required parties with the following:  L THAT APPLY  OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED  OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  OF PLANNED OPERATION

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal services the return receipt card or other postal receipt for certified mailing.

NOV 2 2 2017

#### Certification of Notice is hereby given:

THEREFORE, I Hollie M. Medley, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Northeast Natural Energy LLC Address: 707 Virginia Street East, Suite 1200 By: Hollie M. Medley Charleston, WV 25301 Its: Facsimile: 304-241-5972 Regulatory Manager Telephone: 304-212-0422 Email: hmedlev@nne-llc.com CONTRACTO Subscribed and sworn before me this 21 day of November, 2017. Notary Public RISTOPHER ALLEN PATTERSON June 18, 2018 My Commission Expires

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of On and Gas

NOV 2 2 2017

NOV Department of Endronmental Protection

03/30/2018

WW-6A (9-13)

API NO. 47	
OPERATOR WELL NO. Kassay 10H	
Well Pad Name: Kassay	

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE OF APPLICATION**

Notice Time Requirement: notice shall be provided no later the	an the filing date of permit application.
Date of Notice: 11/9/2017 Date Permit Application Filed: 11/2 Notice of:	20/2017
PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	O(b)
	IOD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION
certificate of approval for the construction of an impoundment or pregistered mail or by any method of delivery that requires a receipt sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be locoil and gas leasehold being developed by the proposed well work, it described in the erosion and sediment control plan submitted pursua operator or lessee, in the event the tract of land on which the well proposed well work, if the surface tract is to be used for the placement, constrimpoundment or pit as described in section nine of this article; (5) A have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than thresubsection (b) of this section hold interests in the lands, the applicative records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide water purveyor or surface owner subject to notice and water testing	or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the f the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed ruction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to d (6) The operator of any natural gas storage field within which the see tenants in common or other co-owners of interests described in the may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
<ul><li>☑ Application Notice</li><li>☑ WSSP Notice</li><li>☑ E&amp;S Plan Notice</li><li>☑ SURFACE OWNER(s)</li></ul>	☐ COAL OWNER OR LESSEE
Name: See Attachment	Name: See Attachment
Address:	Address:
Name:	COAL OPERATOR
Address:	Name:
☑ SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name: See Attachment	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attachment
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
☐ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	*Please attach additional forms if necessary Office of Oil and Gas
	NOV 9 9 2017

NOA S S SOIL

WV Department of Environmental Protection 03/30/2018 47061 APINO.47-

WW-6A (8-13) API NO. 47OPERATOR WELL NO. Kassay 10H
RECEIVED
Well Pad Name: Kassay
Office of Cit and Gas

#### Notice is hereby given:

VOV 2 2 2017

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

WV Preparament of Environmental Protection

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### **Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided. whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the? well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items of

03/30/2018

WW-6A (8-13)

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

### Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

#### Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

#### Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

#### Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57<sup>th</sup> St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

NOV 22 2017

WW-6A (8-13) API NO. 47OPERATOR WELL NO. Kassay 10H
Well Pad Name: Kassay

### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(e)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

#### Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

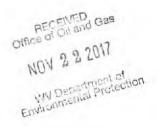
#### Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.



WW-6A (8-13)

4706101797
API NO: 47-06101797
OPERATOR WELL NO. Kassay 10H
Well Pad Name: Kassay

Notice is hereby given by	Notic	e is l	herek	y gi	ven	by:
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Well Operator: Northeast Natural Energy LLC

Telephone: 304-212-0422

Email: hmedley@nne-llc.com

Address: 707 Virginia Street E., Suite 1200

Charleston, WV 25301

Facsimile: 304-241-5972

## Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.



Subscribed and sworn before me this 21 day of November 2017

Cliffally Patt Notary Public

My Commission Expires June 18, 2018

Office of Oil and Gas
NOV 2 2 2017
WV Department of Environmental Protection

Kassay 10H

## **Surface Owner(s):**

Precision Oil and Gas, Inc. P.O. Box 884 Bridgeport, WV 26330

Patty Kassay 1991 Daybrook Road Fairview, WV 26570

Mr. Samuel W. and Stacy L. Matteo, C/o Ileen Morton Matteo (life estate) 404 Country Road Fairview, WV 26570

## <u>Surface Owner(s) – Road and/or Other Disturbance:</u>

Patty Kassay 1991 Daybrook Road Fairview, WV 26570

Mr. Samuel W. and Stacy L. Matteo C/o Ileen Morton Matteo (life estate) 404 Country Road Fairview, WV 26570

### **Coal Owner or Lesee:**

CONSOL Mining Company LLC Attn: Analyst CNX Center 1000 Consol Energy Drive Canonsburg, PA 15317-6506

Murray American Energy 46226 National Road St. Clairsville, OH 43950

## Surface Owner of Water Well and/or Water Purveyor:

Patty Kassay 1991 Daybrook Road Fairview, WV 26570

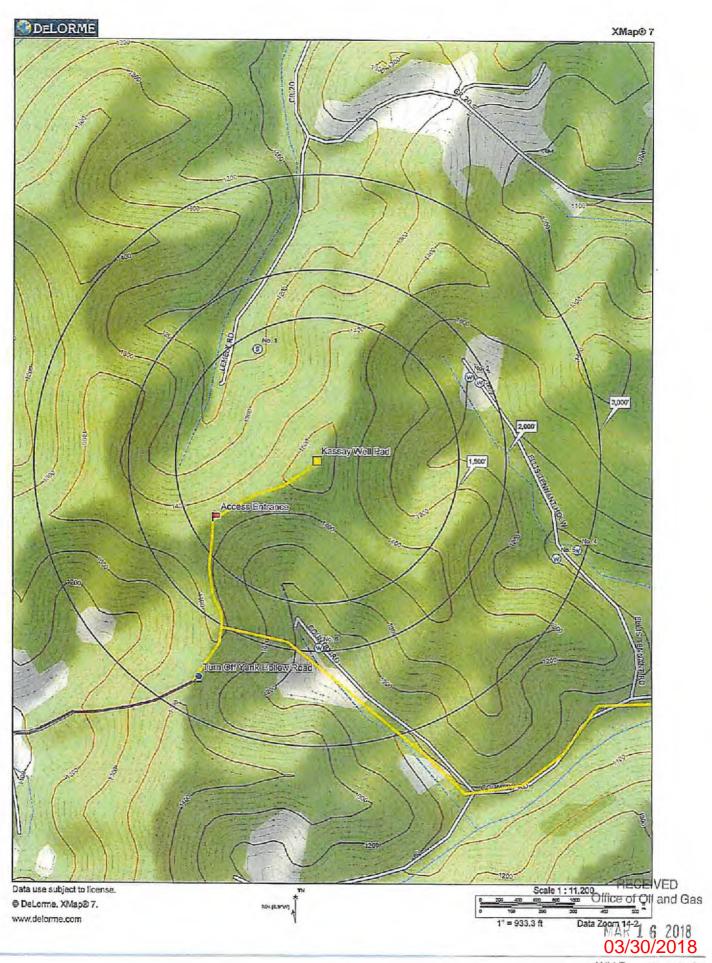
Bernice Tennant 299 Ellis Tennant Hollow Fairview, WV 26570

Nancy Carpenter, et al 1343 Bunner Ridge Road Fairmont, WV 26554

Angela Martin Mayle 477 Country Road Fairview, WV 26570

PECEIVED Gas
Office of Oil and Gas
NOV 2 2 2017

NOV Department of Environmental Protection



## **Kassay Water Well Location**

	Surface Owner/Water Purveyor	Supply Type	Tax Map and Parcel	Latitude/Longitude
1	Patty Kassay	Spring Fed Pond	Tax Map 17, Parcel 48	39.661540, -80.196811
2	Bernice Tennant	Well	Tax Map 17, Parcel 64	39.660746, -80.188790
3	Bernice Tennant	Well	Tax Map 17, Parcel 64	39.660598, -80.188415
4	Nancy Carpenter, et al	Well	Tax Map 17, Parcel 73	39.655795, -80.184712
5	Nancy Carpenter, et al	Well	Tax Map 17, Parcel 73	39.655544, -80.185504
6	Angela M. Mayle	Well	Tax Map 17, Parcel 59.1	39.652950, -80.194444

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Office of Oil and Gas

MAR 1 6 2018

WW-6A3 (1/12)

Operator Well No. Kassay

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time R entry	equirement: Notice shall be pro	vided at least SEVEN (7) day	s but no more that	1 FORTY-FIVE	(45) days prior to
Date of Notice:	12/18/2013 Date of Pla	nned Entry: 12/25/2013			
Delivery metho	od pursuant to West Virginia C	Code § 22-6A-10a			
☐ PERSONA	AL REGISTERED	☐ METHOD OF DEL	IVERY THAT RE	OUIRES A	
SERVICE		RECEIPT OR SIGN			
on to the surface but no more that beneath such tra bowner of minera and Sediment C Secretary, which	st Virginia Code § 22-6A-10(a), e tract to conduct any plat survey in forty-five days prior to such en act that has filed a declaration purals underlying such tract in the co- control Manual and the statutes as in statement shall include contact ce owner to obtain copies from the control of the contact ce owner to obtain copies from the act of the contact ce owner to obtain copies from the contact ce owner to obtain copies from the contact ce owner to obtain copies from the ce owner to copies from the ce owner to copies ce owner to copies ce owner to copies ce owner to copies ce owner to ce ce owner to ce ce owner to ce ce ce ce ce ce ce ce ce ce ce	is required pursuant to this are atry to: (1) The surface owner resuant to section thirty-six, are county tax records. The notice and rules related to oil and gas information, including the ac-	ticle. Such notice s of such tract; (2) t ticle six, chapter to shall include a sta exploration and pi	hall be provided to any owner or leventy-two of this tement that copies to duction may be	at least seven days essee of coal seams s code; and (3) any es of the state Erosion e obtained from the
	y provided to:	4			
■ SURFACE			OWNER OR LES		
Name: See Attach		Name: See	Attachment		_
Address:		Address:			-
Name:			DAL OVOTOBLE		
			RAL OWNER(s)		
Address:		Address:			_
7,77			additional forms if nec	essary	_
a plat survey on State: _v	st Virginia Code § 22-6A-10(a), the tract of land as follows: Vest Virginia	Approx. Latit	ide & Longitude:		76 (UTM NAD)
_	onengana Clay		00033.	Dunkard	a rivus)
	lacksville, WV	Generally use	farm name:	Kassay	
may be obtained Charleston, WV	Northeast Natural Energy LLC	Department of Environmenta s of such documents or additi	Protection headquonal information re	narters, located a elated to horizon	t 601 57 <sup>th</sup> Street, SE, tal drilling may be RECEIVED Office of Oil and Ga
	304.241.5752	Facsimile			NOV 2 2 2017
Email: Oil and Gas I	hmedley@nne-llc.com  Privacy Notice: il and Gas processes your person	Facsimile:	304.241.5972	phone number, as	WV Department

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

03/30/2018

Surface Owner	Address	
Nehemiah Kassay Patty Kassay	1991 Daybrook Road, Fairview, WV 26570	-
Precision Oil and Gas Inc.	P.O. Box 884, Bridgeport, WV 26330	

Surface Owner - Access Road	Address
Nehemiah Kassay Patty Kassay	1991 Daybrook Road, Fairview, WV 26570

Mineral Owner	Address
Alice Wise, A Widow	8615 Tiber Hollow Court Louisville, KY 40219
Alma M. Joseph, A Widower	510 Brewer Street Akron, OH 44305
Almeada J. Barber, A Widow	22 Kurtz Street Apt 206 Athens, OH 45701
Ardella J. Clevenger	3 Karen Court Fairmont, WV 26554
Betty C. Lyons	316 North Main Street Bishop, CA 93514
Betty Lee Sine, Widow	Rt 1 Box 450 Riversville WV 26588
Billy Ray Tennant	658 Mooresville Road Core, WV 26541
C.W. Sine, A Single Man	4014 Trent Avenue Cleveland, OH 44109
Carol I Wise, Married	159 Pine Drive Poca, WV 26559 7 √
Celeste M Frickleton	11724 Dry River Ct. Reston, VA 20191
Cheryl Lisabeth Gallagher	2094 Croosroads Road Fairview, WV 26570
Connie Varner, A Single Woman	16005 Fleming Road Amesville, OH 45711
Darlene Eddy, A/K/A Darlene S.	910 Harlem Fairmont, WV 26554
Deborah Sudduth And Samuel	8480 Rural Dale Road Blue Rock, OH 43760
Dennis Keith Williams	Rt 1 Box 174 Fairmont, WV 26554
Diana Beth Thomas, A/K/A Diane	404 Brown Run Rd. Burton, WV 26590
Diane Beth Thomas And Curtis	404 Brown Run Rd. Burton, WV 26590
Donald R Sine, Married	5097 W. 148th Street Brook Park, OH 44142
Donald R. Sine And Irma Sine,	5097 W. 148th Street Brook Park, OH 44142
Donald Rex Williams	153 South Heritage Drive Jenkins, KY 41537
Donna Lynn Chase, Married	2833 West Roy E. Furman Highway Rogersville, PA 15359
Doris L Sine, Widow	4430 Fairmont Road Morgantown , WV 26501
Ellen J Woodruff, Widow	7529 Praire Road, NE, Albuquerque, NM 87109-1801
Emza M. Parsons, A Widow	607 Bryan Avenue Barrackville, WV 26559
Everett A Sine, Jr, Married	101 Mount Harmon Road Fairview, WV 26570
Freddy W Williams, Married	222 Happy Lane Fairview, WV 26570
Gail Church, Married	127 Dewey Ave. Spraggs, PA 15362
Ginger K. Estle	46 Breezy Drive Morgantown, WV 26501
Helen Cummings, A Widow	P.O. Box 277 Grant Town, WV 26574
James Everett Williams li	21200 State Rt. 676 Marietta, OH 45750
James Varner, A Single Man	16170 Fleming Road Amesville, OH 45711
Janet Varner, A Widow	16170 Fleming Road Amesville, OH 45711  16005 Fleming Road Amesville, OH 45711  Office of Oil and Gas
Jarrod Williams	P.O. Box 311 Pentress, WV 26544
Jimmy Randall Tennant	P.O. Box 311 Pentress, WV 26544  15 Clint Moore Road Fairview, WV 26570  NOV 2 2 2017
Jody L. Varner, A Single Man	P.O. Box 102 181 Water Street Duncan Falls, OH 43734 WV Department of 619 Ruby Street Belmont, WV 26134
Joyce Ann Berga, A/K/A Joyce	619 Ruby Street Belmont, WV 26134
Karen J. Taylor, F/K/A Karen	50711 State Rt 7 New Matamoras, OH 45767
Karen M. Cain, A/K/A Karen	645 Hillwood Drive Morgantown, WV 26508
Kimberly Sue Brummage	2596 Daybrook Road Fairview, WV 26570

Kristie Virgie Vedis	631 Daybrook Road Fairview, WV 26579	1
Larry K Sine, Married	1101 Buffalo Road Mannington, WV 26582	2
Larry Tennant, A Married Man	1110 Plum Road Mannington, WV 26582	
Leonard D Moore, Married	10754 Mason Dixion HWY Burton, WV 26562	
Leonard L Tennant, Married	206 Putney Road Cumberland, V A 23040	1
Lisa And William Mccammon	6549 South Blackburn Road Athens, OH 45701	↑. <b>√</b>
Loretta Fluharty	Rt 3 Box 155A Mannington, WV	<b>X</b>
Louise Varner, A Widow	99 Bean Road Lot 4 The Plains, OH 45780	
Lyall A Sine, Aka Lyal A Sine	355 Statler Run Road Fairview, WV 26570	7.
Lydia L. Troutman	46 Breezy Drive Morgantown, WV 26501	
Mabel L Mcafee, Married	5208 Secretariat Run Spring Hill, FL 34609	7.
Mabel L. Mcafee, A Widow	5208 Secretariat Run Spring Hill, FL 34609	3 *
Mark Varner, A Single Man	480 High Street Nelsonville, OH 45764	7
Mary J. Pemberton, A/K/A Mary	149 Honeysuckle Lane Huntington, WV 25701	
Mary Liming, A Married Woman	4341 Mason Dixon Highway Core, WV	1
Mary R. Mccullough, A Widow	1646 Morris Stret Washington, PA 15301	7
Michelle Dawn Johnson And Eric	3306 Mason Dixon HWY Core, WV 26541	7
Myrtle L. Sine	8044 Smokey Drain Road Core, WV 26529	/
Nehemiah Kassay and Patty A. Kassay	1991 Daybrook Road, Fairview, WV 26570	Souners
Nehemiah Kassay And Patty A. Kassay	1991 Daybrook Road, Fairview, WV 26570	1
Nola M Williams, Widow	61 Vermillion Drive Pentress, WV 26544	R5-
Pamela Brown And Carl Brown	1327 Irish Road Philo, OH 43771	/
Pamela J. Yurisko	RR 3 Box 197B Shinnston, WV26431	1.
Pamela Rena Hall, Married	290 Oak Street Waynesburg, PA 15370	
Patricia Ann Hostutler, Single	1460 Jakes Run Road Fairview, WV 26570	
Patricia Van Tassell, Married	7024 Pam Drive Millington, TN 38053	
Paul Varner, A Single Man	472 Scott Street Nelsonville, OH 45764	1
Peggy A Morris, Married	37534 Landis Ave. Zephyrhills, FL 33541	J. V
Raymer Tennant	154 Behler Road Fairview, WV 26570	
Rebecca Gail Foley	1175 Range Road Wadestown, WV 26590	25/
Rebecca Lynne Strahler	307 Marion Street Marietta, OH 45750	7. \
Richard Tennant	Rt 2 Box 335 C Fayetteville, ,WV 25840	_ v
Rickey Jane Buchanan, A	4603 Red Tail Hawk Lane Waxhaw, NC 28173	
Robert Ora Wheeler And Paula	5210 Cass Street Oak Lawn, IL 60453	7
Robert Varner, A Single Man	16005 Fleming Road Amesville, OH 45711	
Rodney Wayne Tennant	1733 Jakes Run Road Fairview, WV 26570	
Roxana Cahill	609 South Pine Grove Road Virginia Beach, VA 23452	/
Ruby E. Van Fossen	1390 West jackson Hill Court Laecanto, FL 34461	
Sandra Faye Wilson And Wayne	7725 Mason Dixon Highway Wana, WV 26590	
Steven Varner Sr. And Tina	21 Robbins Road Nelsonville, OH 45764	
Sue Ann Strickland, Married	6412 Colleen Ave., NE Albuquerque, NM 87109	RECEIVED Office of Oil and Gas
Susan L. Michael, A/K/A Susan	4256 Crossroads Road Fairview, WV 26570	
Tamela R. Simeral And Jerry	2207 Armco Avenue Zanesville, OH 43701	NOV 2 2 2017
Tina L. Fluharty And Richard	41 Finch Lane Mannington, WV 26582	
Tommy J. Eddy, Sr., A/K/A	3027 Daybrook Road Fairview, WV 26570	WW Department of Environmental Protection
Troy L. Tennant And Anna L.	Rt. 1 Box 169 B Fairmont, WV 26554	
Twyla Hinds Snopps	Rt 2 Box 367 Lost Creek, WV 26385	

Varner L Moore, Married	7368 Mason Dixion HWY Wana, WV 26590	7 1
W Richard Williams, Married	10809 US Highway 27 South Sebring, FL 33876	123
Walden J. Cook, Jr.	340 1171st Street Middleton, IL 62666	1

/	./
	230
	1

Coal Owner	Address	
Consolidated Coal Company	1000 Consol Energy Drive, Canonsburg, PA	

RECEIVED Office of Oil and Gas

NOV 2 2 2017

WV Department of Environmental Protection

WW-6A4 (1/12)

Operator Well No. Kassay 10H

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Noti	Requirement: Notice shall be provided at ce: 11/09/2017 Date Per	mit Application Filed: 11/20/2017		
Delivery me	thod pursuant to West Virginia Code § 2	2-6A-16(b)		
☐ HAND	CERTIFIED MAIL			
DELIVE		UESTED		
receipt reque drilling a hor of this subsection m	V. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given etion as of the date the notice was provided ay be waived in writing by the surface own ble, facsimile number and electronic mail as	er notice of its intent to enter upon to pursuant to subsection (a), section to to the surface owner: <i>Provided, ho</i> er. The notice, if required, shall inc	the surface owner's land en of this article satisfie wever, That the notice re lude the name, address,	for the purpose of es the requirements equirements of this telephone number,
	reby provided to the SURFACE OW	NER(s):		
Name: Please S	See Attachment	Name: Please See Attachm	ent	_
Address:		Address:		
Pursuant to V	Vest Virginia Code § 22-6A-16(b), notice i			ntent to enter upon
Pursuant to V the surface ov State; County:	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a how West Virginia  Monongalia	izontal well on the tract of land as for a UTM NAD 83 Easting: Northing:	569115.0 4390178.8	
the surface ov State: County: District:	Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hor West Virginia	izontal well on the tract of land as for the control of land as for the con	ollows: 569115.0	
Pursuant to V the surface ov State; County:	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a how West Virginia  Monongalia  Clay	izontal well on the tract of land as for a UTM NAD 83 Easting: Northing:	569115.0 4390178.8 County Route 25/3 (Yank Hol	
Pursuant to V the surface of State; County; District; Quadrangle; Watershed;  This Notice Pursuant to V facsimile nur related to hor	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a how West Virginia  Monongalia  Clay  Blacksville	Tizontal well on the tract of land as for the control of land as for the co	billows: 569115.0 4390178.8 County Route 25/3 (Yank Holi Kassay  ress, telephone number and representative. Additional Environmental Protections of Environmental Protections (See Environmental Protections)	now Road)  T, and if available, itional information ection headquarters,
Pursuant to V the surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nur related to hor located at 60000 Notice is he	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hor West Virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include: West Virginia Code § 22-6A-16(b), this is mber and electronic mail address of the orizontal drilling may be obtained from the 1 57th Street, SE, Charleston, WV 25304 (3 creby given by:	Dizontal well on the tract of land as for the control of land as for thing:  Output  O	billows: 569115.0 4390178.8 County Route 25/3 (Yank Holikassay  ress, telephone numbered representative. Additof Environmental Protected.	now Road)  T, and if available, itional information ection headquarters,
Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 600 Notice is he Well Operato	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horward virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include:  West Virginia Code § 22-6A-16(b), this important and electronic mail address of the orizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3)	Dizontal well on the tract of land as for a control well on the tract of land as for a control well as for a c	bollows: 569115.0 4390178.8 County Route 25/3 (Yank Holk Kassay  ress, telephone numbered representative. Addit of Environmental Protection of Environmental Protection of Environmental Protection of Environmental Protection.  Hollie Medley, Regulatory	now Road)  and if available, itional information to headquarters, pages/default.aspx.
Pursuant to V the surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nur related to hor located at 600  Notice is he Well Operato Address:	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hor West Virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include: West Virginia Code § 22-6A-16(b), this imber and electronic mail address of the orizontal drilling may be obtained from the 1 57th Street, SE, Charleston, WV 25304 (3 creby given by:  Northeast Natural Energy LLC  707 Virginia Street East, Suite 1200	rizontal well on the tract of land as for the control of the contr	billows: 569115.0 4390178.8 County Route 25/3 (Yank Holikassay  ress, telephone numbered representative. Additof Environmental Protected.	now Road)  and if available, itional information to headquarters, pages/default.aspx.
Pursuant to V the surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nur related to hor located at 60:  Notice is he Well Operato Address: Charleston, WV	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horwher's land for the purpose of drilling a horwher's land for the purpose of drilling a horwher's land for the purpose of drilling a horwher land by the land of the land by the land	rizontal well on the tract of land as for the control of the contr	billows: 569115.0 4390178.8 County Route 25/3 (Yank Holikassay  ress, telephone numbered representative. Addit of Environmental Protecter. W. gov/oil-and-gas/pt.  Hollie Medley, Regulatory 48 Donley Street, Suite 60	n, and if available, itional information etion headquarters, pages/default.aspx.
Pursuant to V the surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nur related to hor located at 6000  Notice is he Well Operato Address: Charleston, WV Telephone:	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horwher's land elast street.  Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the orizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3 treby given by:  West Virginia Street East, Suite 1200  25301  304-414-7060	Dizontal well on the tract of land as for the control of land as for the co	billows: 569115.0 4390178.8 County Route 25/3 (Yank Holikassay  ress, telephone numbered representative. Additional Environmental Protection of Environmental Protection o	now Road)  T, and if available, itional information etion headquarters, pages/default.aspx.  Manager
Pursuant to V the surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V facsimile nur related to hor located at 60:  Notice is he Well Operato Address: Charleston, WV	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horwher's land for the purpose of drilling a horwher's land for the purpose of drilling a horwher's land for the purpose of drilling a horwher land by the land of the land by the land	rizontal well on the tract of land as for the control of the contr	billows: 569115.0 4390178.8 County Route 25/3 (Yank Holikassay  ress, telephone numbered representative. Addit of Environmental Protecter. W. gov/oil-and-gas/pt.  Hollie Medley, Regulatory 48 Donley Street, Suite 60	n, and if available, itional information etion headquarters, pages/default.aspx.

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Kassay 10H

## Surface Owner(s):

Precision Oil and Gas, Inc. P.O. Box 884 Bridgeport, WV 26330

Patty Kassay 1991 Daybrook Road Fairview, WV 26570

Mr. Samuel W. and Stacy L. Matteo, C/o Ileen Morton Matteo (life estate) 404 Country Road Fairview, WV 26570



RECEIVED Office of Oil and Gas

NOV 2 2 2017

WV Department of Environmental Protection

WW-6A5 (1/12)

Operator Well No. Kassay 10H

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of No		vided no later than the filing ermit Application Filed: 11/2		аррисацоп.
Delivery m	ethod pursuant to West Virginia	Code § 22-6A-16(c)		
■ CER	TIFIED MAIL	☐ HAND		
	URN RECEIPT REQUESTED	DELIVERY		
return receithe planned required to drilling of damages to (d) The not of notice.  Notice is he (at the addr	pt requested or hand delivery, give to operation. The notice required by be provided by subsection (b), section a horizontal well; and (3) A propose the surface affected by oil and gas of ices required by this section shall be ereby provided to the SURFACE (ess listed in the records of the sherif	the surface owner whose land y this subsection shall inclu- tion ten of this article to a surfa- sed surface use and compens operations to the extent the da- egiven to the surface owner and OWNER(s) If at the time of notice):	I will be used for de: (1) A copy ace owner whose ation agreement at the address list	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Name: Pleas Address:	e See Attached	Name:	Please See Attached	
	ereby given: West Virginia Code § 22-6A-16(c),	notice is hereby given that the	ne undersigned	well operator has developed a planned
Pursuant to operation of State: County: District: Quadrangle	West Virginia Code § 22-6A-16(c), on the surface owner's land for the property was virginia  Monongalia  Ctay  Blacksville	urpose of drilling a horizonta  UTM NAD 8  Public Road	I well on the tra Easting: Northing:	
Pursuant to operation of State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provide to be provided information the adquarter	West Virginia Code § 22-6A-16(c), on the surface owner's land for the property of the surface owner's land (a) Blacksville  Dunkard Creek  Shall Include:  West Virginia Code § 22-6A-16(c), ded by W. Va. Code § 22-6A-10(b) well; and (3) A proposed surface use extend by oil and gas operations to the related to horizontal drilling may	urpose of drilling a horizonta  UTM NAD 8  Public Road 2  Generally use  this notice shall include: (1)  to a surface owner whose and compensation agreement extent the damages are combe obtained from the Secret	I well on the tra Easting: Northing: Access: ad farm name:  A copy of this land will be und ary, at the WV	tet of land as follows: 569115.0 4390178.8 County Route 25/3 (Yank Hollow Road)
Pursuant to operation of State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provide to be provided information the adquarter	West Virginia Code § 22-6A-16(c), on the surface owner's land for the property of the surface land of the	urpose of drilling a horizonta  UTM NAD 8  Public Road 2  Generally use  this notice shall include: (1)  to a surface owner whose and compensation agreement extent the damages are combe obtained from the Secret	I well on the tra Easting: Northing: Access: ad farm name:  A copy of this land will be und ary, at the WV	tet of land as follows:  569115.0  4390178.8  County Route 25/3 (Yank Hollow Road)  Kassay  code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Pursuant to operation of State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provided information to the adquarter to the adquarter to the surface affect information the adquarter to the surface to the surface affect information the adquarter to the surface to the surface affect information the surface affect information the surface to the surface to the surface to the surface affect in surface to the surface affect in surface to the surface	West Virginia Code § 22-6A-16(c), on the surface owner's land for the property of the surface land of the	urpose of drilling a horizonta  UTM NAD 8  Public Road 2  Generally use  this notice shall include: (1)  to a surface owner whose and compensation agreement extent the damages are compensation the Secret Charleston, WV 25304	I well on the tra Easting: Northing: Access: A copy of this I land will be und ary, at the WV (304-926-0450)	act of land as follows:  569115.0  4390178.8  County Route 25/3 (Yank Hollow Road)  Kassay  code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-east, Suite 1200">www.dep.wv.gov/oil-and-east, Suite 1200</a>

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact VED DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. Office of Oil and Gas

NOV 2 2 2017

W/V Department of Environmental Protection

Kassay 10H

## Surface Owner(s):

Precision Oil and Gas, Inc.
P.O. Box 884
Bridgeport, WV 26330

Patty Kassay 1991 Daybrook Road Fairview, WV 26570

Mr. Samuel W. and Stacy L. Matteo, C/o lleen Morton Matteo (life estate) 404 Country Road Fairview, WV 26570

> RECEIVED Office of Oil and Gas

NOV 2 2 2017

WV Department of Environmental Protection

03/30/2018

API NO. 47-	
OPERATOR WELL NO.	Kassay 2H,4H,6H,10H
Well Pad Name: Kassay	

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

State:	West Virginia	of land as follout of land as follows:	Easting:	(2H) 569098.6; (4H) 569104.1; (6H) 569109.5; (10H) 569115.
County:	Mcnongalia		Northing:	(2H) 4390146.1; (4H) 4390157.0; (6H) 4390167.9; (1DH) 4390178.
District:		Public Road Acce	24.	County Route 25/3 (Yank Hollow Road)
Quadrangle:		Generally used fa	rm name:	Kassay
Watershed:	Dunkard Creek			
		TOR	EAECUI	ION BY A NATURAL PERSON
		6.5	4	DE ANATURAL PERSON
SURFA	CE OWNER	Signa Print	nture:	Month E. Sand
■ SURFA	CE OWNER (Road and/or Other Disturbance)	Signa Print	nture: K	asut !
■ SURFA	CE OWNER	Signa Print Date:	Name:	Month E. Sand
■ SURFAC	CE OWNER (Road and/or Other Disturbance)	Signa Print Date:	Name: A	asut !
■ SURFAC □ SURFAC □ SURFAC □ COAL C	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Signa Print Date: FOR Comp By:	Name: A	ION BY A CORPORATION, ETC.
■ SURFACE □ SURFACE □ SURFACE □ COAL CE □ COAL CE	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE OPERATOR	Signa Print Date: FOR Comp	Name: A	ION BY A CORPORATION, ETC.
□ SURFAC □ SURFAC □ COAL C □ COAL C	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Signa Print Date: FOR Comp By:_ Its:	Name: A	ION BY A CORPORATION, ETC.

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6AW (1-12)

API NO. 47-	
OPERATOR WELL NO.	Kassay 2H,4H,6H,10H
Well Pad Name: Kassay	

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

issue the wel	I work permit at any time.		The second secon
. 15	VOLUNTARY STATE	MENT OF NO OB.	IECTION
X Tarn	sted above, and that I have read the		
previsions lis	sted above, and that I have received copies of a N	otice of Application, an An	plication for a Well Work Permit on Form
WW-6A and	attachments consisting of pages one (1) through	h , including	the erosion and sediment control plan, if
required, and	the well plat, all for proposed well work on the tra	ct of land as follows:	and the second s
State:	West Virginia	UTM NAD 83 Easting:	(2H) 569098.6; (4H) 569104.1; (6H) 569109.5; (10H) 569115.
County:	Monongalia	Northing:	(2H) 4390146.1; (4H) 4390157.0; (6H) 4390167.9; (10H) 4390178
District:		Public Road Access:	County Route 25/3 (Yank Hollow Road)
Quadrangle:		Generally used farm name:	Kassay
Watershed:	Dunkard Creek		
*Please check	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
□ SURFA	CE OWNER	Signature:	growe growent
□ SURFA	CE OWNER (Road and/or Other Disturbance)	Print Name	12-2017
□ SURFA	CE OWNER (Impoundments/Pits)	FOR EXECUT	ION BY A CORPORATION, ETC.
□ COAL C	OWNER OR LESSEE	Company:	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
□ COAL C	DPERATOR	Бу:	
■ WATER	RPURVEYOR		
□ OPERA	TOR OF ANY NATURAL GAS STORAGE		

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business enactived needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our offices will and Gas appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

May Department of Employmental Protection 03/30/2018

470611	0	1	7	9	7
OPERATOR WELL NO.	К	assay	2H,4H	.6H,10	н
Well Pad Name: Kassay					

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

## VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

### Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

## VOLUNTARY STATEMENT OF NO OBJECTION

State:	West Virginia	UTM NAD 83 Easting:	(2H) 569098.6; (4H) 569104.1; (6H) 569109.5; (10H)
County:	Monongalia	Northing:	(2H) 4390146.1; (4H) 4390157.0; (6H) 4390167.9; (10H) 4
District:		Public Road Access:	County Route 25/3 (Yank Hollow Road)
Quadrangle: Watershed:	Blacksville  Dunkard Craek	Generally used farm name:	Kassay
Please check	the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
ssued on tho	se materials.		
Please check	the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
□ SURFA	CE OWNER	Signature:	
	CE OWNER CE OWNER (Road and/or Other Disturbance)	Print Name:	
□ SURFAC		Print Name: Date:	
□ SURFAC	CE OWNER (Road and/or Other Disturbance)	Print Name: Date: FOR EXECUT	
□ SURFAC □ SURFAC ■ COAL C	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	FOR EXECUT Company: CONSO By: Casey V. Saunce	ION BY A CORPORATION, ETC. L Mining Company LLC
SURFACE SURFACE COAL COAL COAL COAL COAL COAL COAL COAL	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Print Name:	ION BY A CORPORATION, ETC.  L Mining Company LLC  ers  as Coordination

Oil and Gas Privacy Notice:

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> MAR 1 6 2018 03/30/2018

API NO. 47-7 0 6 1 0 1 7 9 7 OPERATOR WELL NO. KR3339 2H,4H,6H,10H Well Pad Name: Kassay

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

### VOLUNTARY STATEMENT OF NO OBJECTION

State:	West Virginia	UTM NAD 83 Easting:	(2H) 569098 B . (4H) 569104 1 ; (6H) 569109 5 ; (10H) 56911
County: District:	Monongelia	Public Road Access:	
Quadrangle:		Generally used farm name:	County Roule 25/3 (Yank Hollow Road) Kassay
Watershed:	Dunkard Creek	dencially used farm name.	Harry
☐ SURFA	CE OWNER	Signature	
T SIDEA	CE OWNER (Road and/or Other Disturbance)	Drint Monant	
L SUKTA	DE OWNER (Road and/or Other Disturbance)		144
T CHIPTA	CE OWNER (Impoundments/Pits)	FOR EVECUA	TION BY A CORPORATION, ETC.
□ SURFA		I PEPE PARE IN	
	OWNER OR LESSEE	Company: Murray	American Energy, Inc.
■ COAL C	OWNER OR LESSEE	Company: Murray By: Alex O'Neill	American Energy, Inc.
□ COAL C	PERATOR	Company: Murray By: Alex O'Neiti Its: Coal, Oil and	American Energy, Inc.
□ COAL C		Company: Murray By: Alex O'Neith Its: Coal, Oil and & Signature:	American Energy, Inc.

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## **Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jim Justice Governor Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Kassay Pad, Monongalia County Kassay 10H

Dear Mr. Martin,

This well site will be accessed from a permit #04-2014-0914 issued to Northeast Natural Energy Corporation for access to the State Road for a well site located off of Monongalia Route 25/3 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Gary K. Clayton

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Hollie Medley

Northeast Natural Energy Corporation

CH, OM, D-4

File

RECEIVED Office of Oil and Gas

NOV 2 2 2017

VIV Department of Environmental Protection

## Planned Additives to be used in Fracturing Stimulations

Trade Name	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)
Water	Carrier	Water	7732-18-5
HCI, 10.1-15%	Acidizing	Hydrochloric Acid Water	7647-01-0 7732-18-5
Alpha 1427	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Ethanol Glutaraldehyde Quaternary Ammonium Chloride Water	68424-85-1 64-17-5 111-30-8 7173-51-5 7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate Water	9025-56-3 7732-18-5
CI-14	Corrosion Inhibitor	Fatty Acids Methanol Olefin Polyoxyalkylenes Propargyl Alcohol	N.A. 67-56-1 N.A. N.A. 107-19-7
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
GW-3LDF	Gelling Agent	Guar Gum Petroleum Distillate Blend	9000-30-0 CBI
Ferrotrol 300L	Iron Control	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Crystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Crystalline Silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6



CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848

#### OWNER



707 VIRGINIA STREET SUITE 1200 CHARLESTON, WV 25301

MERCER

WYDEP OOG ACCEPTED AS-BUILT

1/5/2018

## KASSAY WELL PAD

## AS-BUILT

CLAY DISTRICT, MONONGALIA COUNTY, WV JANUARY 2017

## (REVISED DECEMBER 2017)

2-3. EVACUATION ROUTE/ PREVAILING WINDS 4. AS-BUILT OVERVIEW S-11 AS BUILT L2-13 ACCESS ROAD PROFILES MOUNTABLE BERM PROFILE AND CELLAR DETAIL 14. RECLAMATION PLAN OVERVIEW 15-21, RECLAMATION PLAN

TOTAL DISTURBED AREA: 15.85 ACRES ROAD DISTURBED AREA: 2.81 ACRES WELL PAD DISTURBED AREA: 13.04 ACRES ACCESS ROAD LENGTH: 2,843' ACCESS ROAD AVG. WIDTH: 24' WELL PAD ELEVATION: 1534"

> API NUMBERS KASSAY 111 - 061-01731 KASSAY 3H - 061-01704 KASSAY 5H - 061-01694 KASSAY 8H - 061-01740 KASSAY 9H - 061-01695 KASSAY 13H - 061-01689

## PLANS PREPARED BY:

## BOORD BENCHEK & ASSOCIATES, INC.

ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES

SOUTHPOINTE, PA 15317 PHONE: 724-746-1055



ANDREW BENCHEK

DATE



WV INSPECTOR:

PROPERTY OWNER	PARCEL#	ACRES
NEHEMIAH KASSAY	31 04-0317-0048-0000	7.83
SAMUEL W. & STACEY L. MATTEC	31-04-0017-0059-0000	3,24
PRECISION DILLS GAS INC.	31-04-0017-0062-0000	4,78

TITLE SHEET

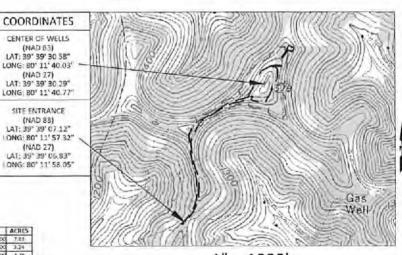
KASSAY WILL FAD CLAY DISTRICT, MONDINGALIA COUNTY, WV SHEET OF 21

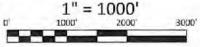
CENTER OF WELLS (NAD 83) LAT: 39" 39' 30 58"

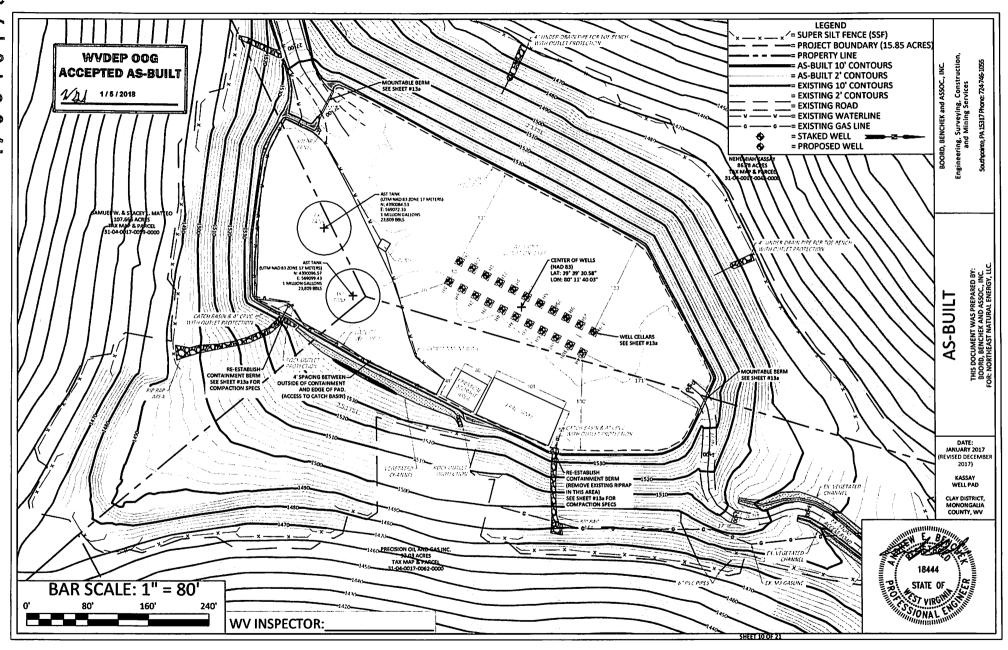
(NAD 27) LAT: 39" 39' 30.29"

(NAD 83)

(NAD 27) LAT; 39" 39' 05.83"







API#6101689 API#6101694 API#6101695

## EROSION & SEDIMENT CONTROL PLAN KASSAY WELL PAD

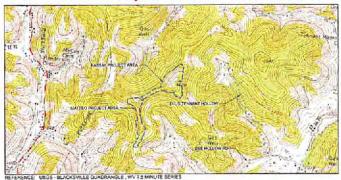
APPROVED WVDEP OOG

12/29/2014

MONONGALIA COUNTY, WEST VIRGINIA FOR

## NORTHEAST NATURAL ENERGY LLC

Electronic Version of These Plans May Be Viewed at: Q:\OIL GAS\SAY FILES\REVIEWS





LOCATION MAP

756 9 1000 2000

SCALE

PROJECT NO. 1338001

DECEMBER 2014

DIEFFENBAUCH & HRITZ, LLC

	INDEX	
DRIVANING NO.	TITLE	
1	TITLE DIECET	
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9-10	ACCESS ROAD PROFILE	
11	SOLS PLAN	
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18	REVEGETATION PLAN	
17	TYPICAL SECTIONS	
18.20	ESSOCIALS	

KASSAY LANTE DE DISTURBANCE SPEAKDOWN:
OVERALL ENITS DE ORTUMBANCE: LANS AC
PROPOSED DESIGN ELEMENTS
ACCESS POLO 2 09 MC
WALL PROFITS DA
ACCESS POLO 2 10 MC

MDV 2 2 201

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