

#### 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

Thursday, March 29, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for KASSAY 4H

47-061-01795-00-00

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 4H

Farm Name: PATTY A KASSAY

U.S. WELL NUMBER: 47-061-01795-00-00

Horizontal 6A New Drill Date Issued: 3/28/2018

API Number:	

# PERMIT CONDITIONS 4706101795

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**

- 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 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 4706101795

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.

WW-6B (04/15)

API NO. 47	
<b>OPERATOR WELL</b>	NO. 4H
Well Pad Name:	Kassay

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

1) Well Operator: Northeast Natural En	ergy LLC	494498281	Monongalia	Clay	Blacksville
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 4H		Well Pad	Name: Kassa	ay	
3) Farm Name/Surface Owner: Patty	Kassay	Public Road	d Access: Cour	nty Route 25	/3 (Yank Hollow Road)
4) Elevation, current ground: 1,534'	E1	evation, proposed p	oost-construction	on: 1,534'	
5) Well Type (a) Gas X	_ Oil	Unde	rground Storag	ge	-
Other					
(b)If Gas Shallow	X	Deep			
Horizontal	<u>X</u>		MOX	3/8	12018
6) Existing Pad: Yes or No Yes			, ,		
7) Proposed Target Formation(s), Dept Marcellus; 8,288'; 103'; 3,600 PSI	h(s), Antic	ipated Thickness a	nd Expected Pr	essure(s):	
8) Proposed Total Vertical Depth: 8,2	88'				
9) Formation at Total Vertical Depth:	Marcellus	3			
10) Proposed Total Measured Depth:	20,239.6	1'			
11) Proposed Horizontal Leg Length:	11,504'				
12) Approximate Fresh Water Strata D	epths:	50' ; 1,120'			
13) Method to Determine Fresh Water	Depths:	DRILLERS LOG F	ROM OFFSE	T WELLS	
14) Approximate Saltwater Depths: 1	,946' ; 2,32	20'			
15) Approximate Coal Seam Depths:	125' ; 1,09	98'			
16) Approximate Depth to Possible Vo	id (coal m	ine, karst, other):	N/A		
17) Does Proposed well location conta directly overlying or adjacent to an acti			No	X	
(a) If Yes, provide Mine Info: Nam	e:				
Dept					
	***************************************	W			
Seam	1:				

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WW-6B (04/15)

API NO. 47	
<b>OPERATOR WELL</b>	NO. 4H
Well Pad Name:	Kassay

#### 18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,220'	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	20,239.61'	20,209.61'	4,796 Cu. Ft.
Tubing	2-7/8"	New	N-80	6.5	N/A	8,500'	N/A
Liners							

MOK 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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### 4706101795

WW-6B
(10/14)

API NO. 47	
<b>OPERATOR WELL</b>	. NO. <u>4H</u>
Well Pad Name:	Kassay

19) Describe proposed well work, including the drilling and plugging	g bac	ack of an	y pilot hole:
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Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,500,' TVD/MD. The well will then be horizontally drilled on fluid from KOP to approximately 8,288' TVD / 20,239.61' 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.

\*Note: Attach additional sheets as needed.

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### NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV Field: Monongalia

Facility: Kassay Pad

Well: Kassay 4H

Wellbore: Kassay 4H PWB

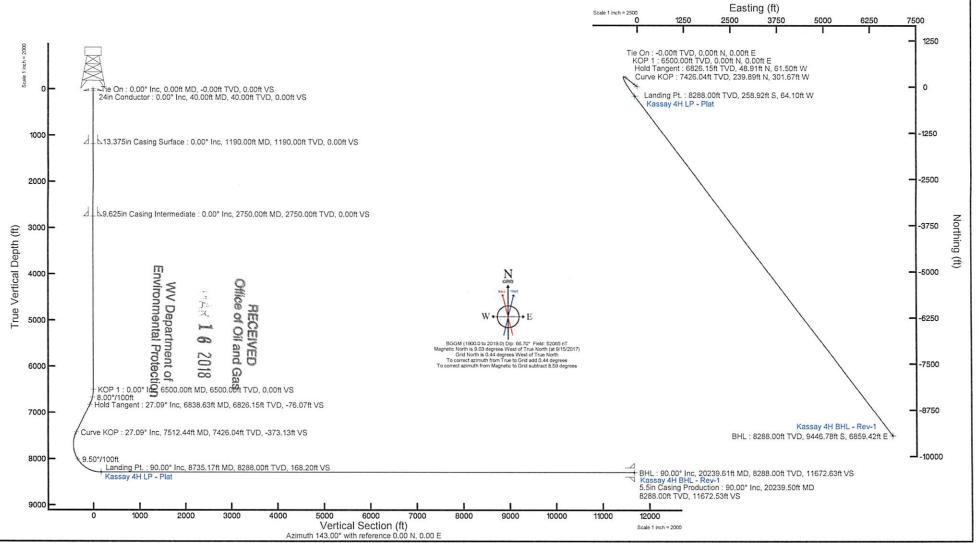
Formation	Depth (KBTVD)	
Tully	8040'	
Hamilton	8090'	
Upper Marcellus	8198'	
Lower Marcellus	8246'	
Onondaga	8301'	





			Location I	nformation		
	Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
	Kassay 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)	Grid North (US ft)	Latitude	Longitude
Slot #04	21.47	45.13	1772990.800	422688.300	39°39'30.333"N	80°11'39.989"W
Ground Level (GL) to Ground level (At Slot: Slot #04)					Oft	
Mean Sea Level to Ground level (At Slot: Slot #04)				-1534ft		
Ground Level (GL) to Mean Sea Level			1534ft			

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



#### 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.

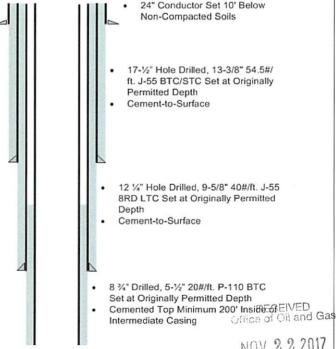
\*The diagram below visually shows the alternative casing plan should an unanticipated void be encountered.

### 24" Conductor Set 10' Below Non-Compacted Soils 22" Hole Drilled to 50' Below 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 Cement-to-Surface 12 1/4" Hole Drilled, 9-5/8" 40#/ft. J-55 8RD LTC Set at Originally Permitted Depth Cement-to-Surface 8 3/4" Drilled, 5-1/2" 20#/ft. P-110 BTC Set at Originally Permitted Depth Cemented Top Minimum 200' Inside of

Intermediate Casing

Casing Schematic w/ Mine String

#### Casing Schematic w/o Mine String



NOV 2 2 2017

WV Department of Environmental Protection 11/11 - IC

N/A	
Plugged on 04-14-1992	
Plugged on 07-25-1983	
Plugged on 04-23-1985	
	-

Comments

Plugged 08-15-1983

Plugged on 05-30-1983

Plugged on 06-30-1993

Plugged on 05-02-1992

**Well Name** 

Ilean Morton Matteo

E J Tennant

D & J Bracken

James S Thomas

N A Tennant

James Thomas II

South Penn Natural Gas Co

Larry A Bragg

**API Number** 

47-061-00694

47-061-00684

47-061-01089

47-061-00527

47-061-00528

47-061-01074

47-061-00696

47-061-00757

**Well Number** 

1

1

NA

8

9

NA

3

NA

Kassay 4H Area of Review

Operator

Consolidation Coal Co.

Consolidation Coal Co.

Consolidation Coal Co.

Consolidation Coal Co.

**Pennzoil Company** 

Consolidation Coal Co.

South Penn Oil (S. Penn Nat.

Gas)

Consolidation Coal Co.

Latitude (NAD 27)

39.654711

39.650941

39.638036

39.639051

39.639196

39.640211

39.653116

39.653261

Longitude (NAD 27)

-80.193662

-80.189347

-80.172651

-80.174714

-80.176214

-80.175652

-80.18991

-80.188034

**TMP** 

4-17-59

4-17-76

4-21-43

4-20-20.1

4-20-20.1

4-20-20.1

4-17-76

4-17-74

TVD

NA

NA

NA

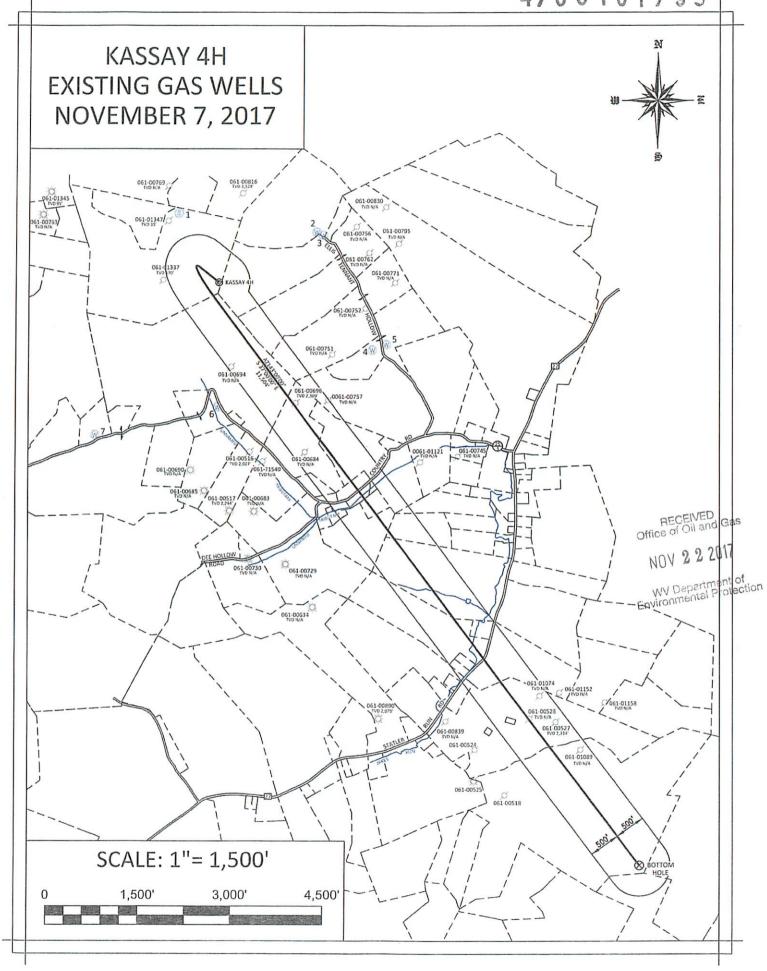
NA

NA

NA

NA

NA



WW-9 (4/16)

API Number 47 -	
Operator's We	II No. Kassay 4H

#### 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 complete the proposed well work? Yes 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 Permit Number
Will closed loop system be used? If so, describe: Yes, Please See Attachment "A"
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air-Vertical; Oil Based - Curve & Horizontal
-If oil based, what type? Synthetic, petroleum, etcSynthetic Oil Based Mud
Additives to be used in drilling medium? Organophilic Clay Viscosifiers, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents
Drill cuttings disposal method? Leave in pit, landfill, removed 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 See Attachment "A"
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.  Company Official Signature
Company Official (Typed Name) Hollie Medley  RECEIVED Office of Oil and Gas
Company Official Title Regulatory Manager
NOV 2 2 2017
Subscribed and sworn before me this 15 day of November, 20 17  WV Department of Environmental Protection  Notary Public
My commission expires 9 / 25 / 2020  My commission expires 9 / 25 / 2020  OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Michael Eisenhauer 156 Meadowridge Townhomes Morgantown, WV 26505 My Commission Expires Sep. 25, 2020

Form WW-9 Northeast Natural Energy LLC	;	Operator's	s Well No. Kassay	/ 4H
Proposed Revegetation Treatment: Acres D		Prevegetation	pH 5-7	
Lime 2 Tons/acre	or to correct to pH $\frac{7}{2}$			
Fertilizer type 19-19-19				
Fertilizer amount 300	lbs/a	cre		
Mulch 2	Tons/acre			
	Seed M	lixtures		
Temporary		Per	manent	
Seed Type lbs/acre		Seed Type	lbs/ac	
Orchard Grass	46	Orchard Grass		46
Red Clover	8	Red Clover		8
Tetraploid Perennial Rye	16	Tetraploid Perenni	al Rye	16
Timothy 15 Annual Rye	15	Timothy 15 Ar	nual Rye	15
Attach: Maps(s) of road, location, pit and proposed provided). If water from the pit will be land acreage, of the land application area.  Photocopied section of involved 7.5' topographic plan Approved by:  Comments:	applied, include dime	nsions (L x W x D) of the pit,	cluding this info h and dimensions (I	L x W), and area in
Title: TNS RESTER		Date: 11/1/1/201	フ	

Field Reviewed? (X) Yes (\_\_\_\_) No

#### Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Kassay 4H 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 4H 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)

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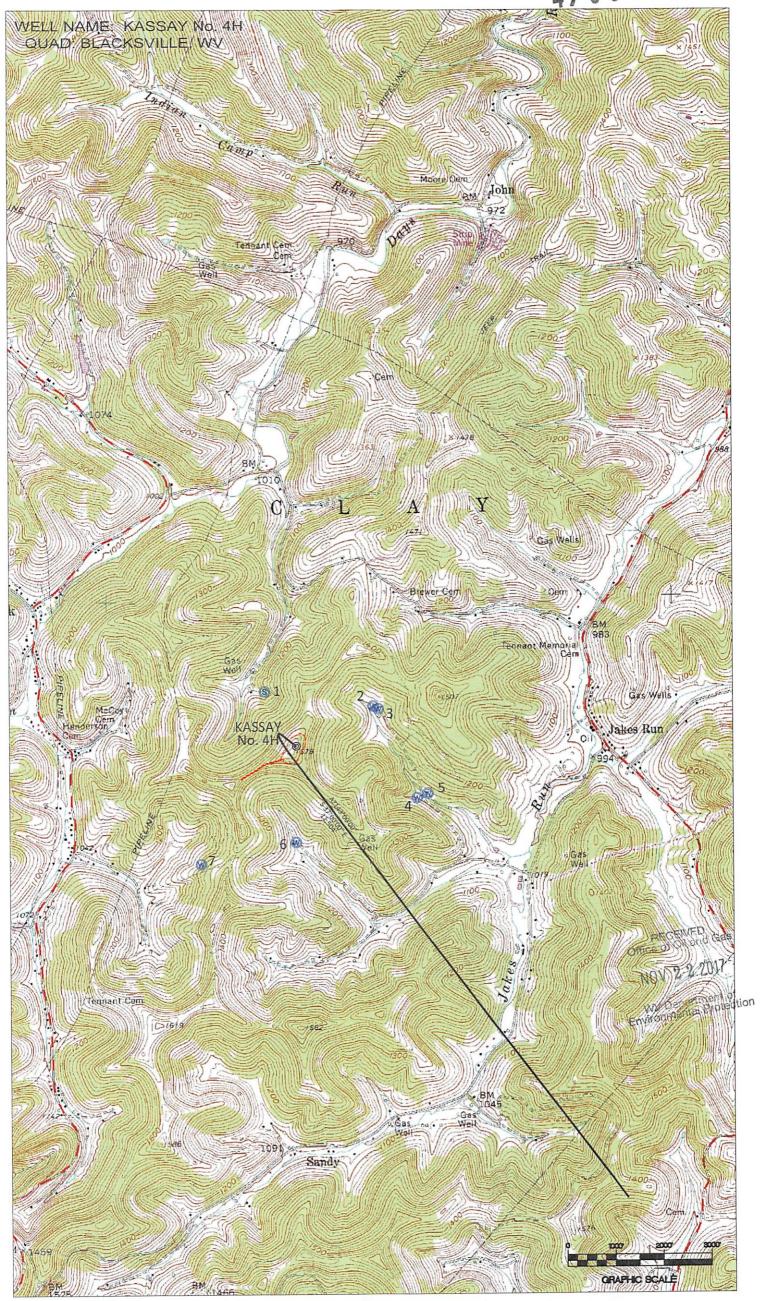
### Kassay 4H SITE SAFETY PLAN

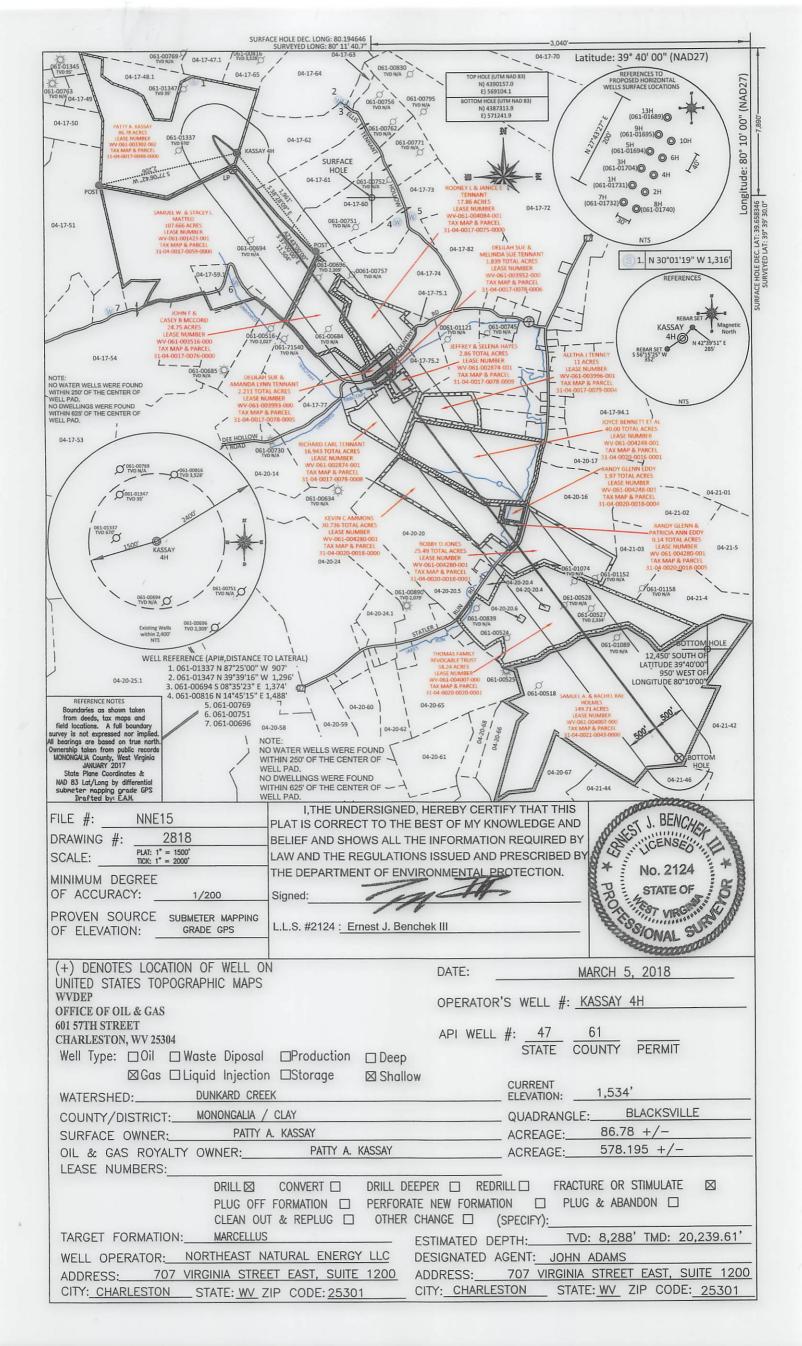
November 8, 2017

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WW-6A1 (5/13)

Operator's Well No. Kassay 4H

#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

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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MAR 1 6 2018

WV Department of Environmental Protection

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

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WW-6A1		Operator's Well No. 4	KASSAY	
NNE LEASE NUMBER	LESSOR NAME	LESSEE NAME	ROYALTY	BOOK/PG
, me cense monitori		F-25-5		
WV-061-003302-002	Patty A. Kassay	Northeast Natural Energy LLC	0.125 OR GREATER	1506/143
WV-061-003654-001	Dorsey Neil Strickler And Nancy E Strickler	Northeast Natural Energy LLC	DEED	1541/383
WV-061-003654-002		Northeast Natural Energy LLC	DEED	1541/379
WV-061-003654-003	Paul T Strickler And Sharon Strickler	Northeast Natural Energy LLC	DEED	1537/194
WV-061-003654-004	Mary Rose Butler	Northeast Natural Energy LLC	DEED	1537/198
WV-061-003654-005	Wilbur Randolph Stickler And	Northeast Natural Energy LLC	DEED	1557/257
WV-061-003034-003	Cathy Ann Collins	*Chesapeake Appalachia, LLC		1377/172
WV-061-001423-001	Lula Haze Tennant Jones	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1377/226
WV-061-001423-002		*Chesapeake Appalachia, LLC	0.125 OR GREATER	1377/232
		*Chesapeake Appalachia, LLC		1377/229
WV-061-001423-005	Shirley Tennant Jacob W Tennant And Elizabeth B Tennant	Northeast Natural Energy LLC	DEED	1524/196
WV-061-001423-007			DEED	1585/833
WV-061-001423-008	Patricia Ellen Tennant Mayle	Northeast Natural Energy LLC		1578/472
	Xto Energy Inc.	Northeast Natural Energy LLC		
WV-061-003308-001	Chesapeake Appalachia Llc	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1487/224
WV-061-003308-002	Statoil Usa Onshore Properties	*Statoil USA Onshore Properties Inc.	0.125 OR GREATER	1488/721
WV-061-004249-001	Shuman Inc	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003516-000	John F. Mccord And Casey B. Mccord	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-004084-001	Margaret Ann Wood	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-004084-002	Angela L Mccord	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-004084-003	Eric B Mccord	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003052-001	Barbara Carol Jones And Billy W Jones	*Chesapeake Appalachia, LLC	0.125 OR GREATER	
WV-061-003052-002	Lauren E Dean	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1430/354
WV-061-003052-003	Mary Patricia Utt And Hutchinson Utt	*Chesapeake Appalachia, LLC	0.125 OR GREATER	
WV-061-003052-004	Gerald Hunt And Jo Ann Hunt	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1431/421
WV-061-003052-005	Emma Mccord	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1431/418
WV-061-003052-006	Aileen Riley	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1433/574
WV-061-003052-007	Nancy Carol Bowser	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1433/571
WV-061-003052-008	Tom Mccord And Trinka Mccord	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1433/568
WV-061-003052-009	Shirley Jones	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1433/534
WV-061-003052-010	Miriam Amanda Wade Steele And George Ronald Steele	*Chesapeake Appalachia, LLC	0.125 OR GREATER	1459/143
WV-061-003993-000	Delilah Sue Tennant, Life Estate and Amanda Lynn Tenna	Northeast Natural Energy LLC	0.125 OR GREATER	1563/757
WV-061-003952-000	Delilah Sue Tennant, Life Estate and Melinda and Matthe		0.125 OR GREATER	1564/685
WV-061-002930-001	Deborah S. Tennant	Chesapeake Appalachia, LLC	Inactive	1425/238
WV-061-002874-001	Richard Earl Tennant	Chesapeake Appalachia, LLC	0.125 OR GREATER	
WV-061-002874-001	Richard Earl Tennant	Chesapeake Appalachia, LLC	0.125 OR GREATER	
	Jacqueline Straight	Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003996-002		Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003996-003		Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003996-004		Northeast Natural Energy LLC	0.125 OR GREATER	1564/24
WV-061-003996-005		Northeast Natural Energy LLC	0.125 OR GREATER	
WV-061-003996-006		Northeast Natural Energy LLC	0.125 OR GREATER	
		Northeast Natural Energy LLC		1564/140
	Regina L Black And Robert M Black	Northeast Natural Energy LLC		
WV-061-003996-008			0.125 OR GREATER	1566/214
	Robert Lee Mercer And Lila N Mercer	Northeast Natural Energy LLC		
WV-061-003996-010		Northeast Natural Energy LLC	DEED	1563/288
	Michael Haught	Northeast Natural Energy LLC	DEED OR CREATER	1579/841
	Richard Allen Mercer And Frances D Mercer	*XTO Energy Inc.		1448/574
	Ruth Ann Cutrone And Samuel Cutrone	*XTO Energy Inc.	0.125 OR GREATER	
WV-061-003996-021	Nancy C Yost	*XTO Energy Inc.	0.125 OR GREATER	
WV-061-003996-022		*XTO Energy Inc.	0.125 OR GREATER	
WV-061-003996-023	Ellen Ruth Yost	*XTO Energy Inc.	0.125 OR GREATER	
WV-061-003996-024		*XTO Energy Inc.	0.125 OR GREATER	
WV-061-003996-025		*XTO Energy Inc.	0.125 OR GREATER	
WV-061-003996-026		*XTO Energy Inc.	0.125 OR GREATER	
	Praben Mark Kurtzwell	Northeast Natural Energy LLC	0.125 OR GREATER	1581/305
WV-061-004314-001	Reed Energy Services Inc	Northeast Natural Energy LLC	DEED	1580/200
	Richard G Gump	Northeast Natural Energy LLC		E189785
WV-061-004248-001	Piney Holdings, Inc.	Northeast Natural Energy LLC	0.125 OR OFFICEERS	13468/1777E

		In	0.435.00.00=:===	1500/225
	Shuman, Inc.	Northeast Natural Energy LLC		1568/775
	Joy Smith	Northeast Natural Energy LLC	0.125 OR GREATER	
	Shuman, Inc.	Northeast Natural Energy LLC	0.125 OR GREATER	
	Heritage Resources - Marcellus	Northeast Natural Energy LLC	0.125 OR GREATER	
	Joy Smith	Northeast Natural Energy LLC	0.125 OR GREATER	
	Joy Smith	Northeast Natural Energy Llc	0.125 OR GREATER	
	Piney Holdings Inc	Northeast Natural Energy Llc		1568/777
	Shuman Inc	Northeast Natural Energy Llc		1568/775
	Joy Smith	Northeast Natural Energy Llc		1572/34
	Piney Holdings Inc	Northeast Natural Energy Llc	0.125 OR GREATER	
	Shuman Inc	Northeast Natural Energy Llc	0.125 OR GREATER	100000000000000000000000000000000000000
VV-061-004280-001		Northeast Natural Energy Llc	0.125 OR GREATER	
	Xto Energy Inc.	Northeast Natural Energy Llc	0.125 OR GREATER	
	Shuman Inc	Northeast Natural Energy Llc	0.125 OR GREATER	
	Heritage Resources - Marcellus	Northeast Natural Energy Llc	0.125 OR GREATER	
	Piney Holdings, Inc.	Northeast Natural Energy LLC	0.125 OR GREATER	
	Shuman, Inc.	Northeast Natural Energy LLC	0.125 OR GREATER	
VV-061-004280-001	Joy Smith	Northeast Natural Energy LLC	0.125 OR GREATER	_
The second secon	Shuman, Inc.	Northeast Natural Energy LLC	0.125 OR GREATER	
VV-061-004260-001	Heritage Resources - Marcellus	Northeast Natural Energy LLC	0.125 OR GREATER	1570/835
WV-061-004280-001	Joy Smith	Northeast Natural Energy LLC		1572/34
NV-061-004249-001	Shuman, Inc.	Northeast Natural Energy LLC	0.125 OR GREATER	
NV-061-004280-001	Joy Smith	Northeast Natural Energy LLC	0.125 OR GREATER	1572/34
NV-061-004249-001	Shuman, Inc.	Northeast Natural Energy LLC	0.125 OR GREATER	1568/775
NV-061-004260-001	Heritage Resources - Marcellus	Northeast Natural Energy LLC	0.125 OR GREATER	1570/835
WV-061-004007-000	Nimrod A. Tennant And Margaret J. Tennant	Dewitt, Ira	0.125 OR GREATER	26/359
VV-061-004007-000	Nimrod A. Tennant And Margaret J. Tennant	Dewitt, Ira	0.125 OR GREATER	26/359
	Mary D. Fluharty And Roger Fluharty	Northeast Natural Energy LLC	DEED	1561/563
	Eugene Armstrong	Northeast Natural Energy LLC	DEED	1557/170
	Judith Williams	Northeast Natural Energy LLC	DEED	1559/795
	Monica Miller	Northeast Natural Energy LLC	DEED	1560/579
	David B. Tennant And Patricia J. Tennant	Northeast Natural Energy LLC	DEED	1560/384
	Clifton E. Tennant And Loretta	Northeast Natural Energy LLC	DEED	1560/392
	Olan W. Tennant	Northeast Natural Energy LLC	DEED	1560/392
	Wilma G. Williams	Northeast Natural Energy LLC	DEED	1560/388
	Denzil C. Wilson	Northeast Natural Energy LLC	DEED	1560/380
	Martha Peters	Northeast Natural Energy LLC	DEED	1560/337
	Kathy Brown	Northeast Natural Energy LLC	DEED	1561/559
	Sara Beth Hensley And Ronald H	Northeast Natural Energy LLC	DEED	1561/555
VV-061-003721-012		Northeast Natural Energy LLC	DEED	1557/247
VV-061-003721-013	The state of the s	Northeast Natural Energy LLC	DEED	1557/243
1.3. A.S. A. Harristone, Company of the second control of the seco	Ronald D. Walls And Sue Walls	Northeast Natural Energy LLC	DEED	1557/239
VV-061-003721-015		Northeast Natural Energy LLC	DEED	1560/784
	<u> </u>		DEED	1559/439
	Melvin Carl Williams And Jean A. Williams	Northeast Natural Energy LLC	DEED	1561/323
	Terri Ann Marratta	Northeast Natural Energy LLC		
	Virginia Ellen Stiles	Northeast Natural Energy LLC	DEED	1561/209
	Dortohy Jean Johns	<b>0</b> 1	DEED	1570/119
	Mary Margaret Headlee	Northeast Natural Energy LLC	DEED	1570/119
	David S. Bracken And Jane A. Bracken	Northeast Natural Energy LLC	DEED	1570/119
	Linda M. Tennant	Northeast Natural Energy LLC	DEED	1570/119
	Timonthy Alan Walls And Jennifer	Northeast Natural Energy LLC	DEED	1570/119
	Johnny Eugene Williams	Northeast Natural Energy LLC	DEED	1570/119
	John Vernon Williams And Catha	- 07	DEED	1570/119
	William Raymond Swick, Jr.	- 01	DEED	1570/119
	Krishnan R. Lannen	Northeast Natural Energy LLC	DEED	1570/119
VV-061-003721-028		Northeast Natural Energy LLC	DEED	1578/132
VV-061-003721-028 VV-061-003721-030	Jane Ann Jones			
VV-061-003721-028 VV-061-003721-030 VV-061-003721-031	Heather M. Lannen	Northeast Natural Energy LLC	DEED	1596/445
WV-061-003721-028 WV-061-003721-030 WV-061-003721-031 WV-061-003721-032	Heather M. Lannen David Colwell Gallatin	Northeast Natural Energy LLC Northeast Natural Energy LLC	DEED	1570/119
VV-061-003721-028 VV-061-003721-030 VV-061-003721-031 VV-061-003721-032 VV-061-003721-033	Heather M. Lannen David Colwell Gallatin Patricia A. Whitehead	Northeast Natural Energy LLC Northeast Natural Energy LLC Northeast Natural Energy LLC	DEED DEED	1570/119 1570/119
WV-061-003721-028 WV-061-003721-030 WV-061-003721-031 WV-061-003721-032 WV-061-003721-033 WV-061-003721-034	Heather M. Lannen David Colwell Gallatin	Northeast Natural Energy LLC Northeast Natural Energy LLC Northeast Natural Energy LLC Northeast Natural Energy LLC	DEED DEED DEED	1570/119

## 4706101795

WV-061-003721-037	Gregory L. Tennant	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-038	Barbara A. Bonnell, Aka Barbara A. Tennant	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-040	Susan R. Edwards And David Edwards	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-041	Linda L. Barker And William H. Baker Sr.	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-042	Steven Richard Freeland And Manami Fukuda Freeland	Northeast Natural Energy LLC	DEED	1578/132
WV-061-003721-043	Daryl Glenn Gallatin And Kristine M. Gallatin	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-044	James Earl Cooper	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-045	Robert D. Gump, Jr. And Kelly S. Gump	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-046	Chantal Kay Freeland	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-047	David R. Tennant, Jr.	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-048	Sybil Larita Tennant	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-049	Shelia Anderson-Freeland	Northeast Natural Energy LLC	DEED	1578/132
WV-061-003721-050	Donna Luketic And Donald Luketic	Northeast Natural Energy LLC	DEED	1569/567
WV-061-003721-052	Richard Joseph Wilson	Northeast Natural Energy LLC	DEED	1570/119
WV-061-003721-053	Carol M. Standifrod And Grant W. Standford	Northeast Natural Energy LLC	DEED	1577/12
WV-061-003721-054	Thomas A. Morris	Northeast Natural Energy LLC	0.125 OR GREATER	1595/763
WV-061-003721-029	Mary Catherine Walls	Northeast Natural Energy LLC	0.125 OR GREATER	1563/753

RECEIVED
Office of Oil and Gas

MAR 1 6 2018

Chesapeake Appalachia, LLC.

4706101795

Northeast Natural Energy
Assignment
BK 120/769

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Office of Oil and Gas

MAR 1 6 2018

Chesapeake Appalachia, LLC.
And
Statoil USA Onshore Properties Inc.

Northeast Natural Energy Assignment BK 120/769

> RECEIVED Office of Oil and Gas

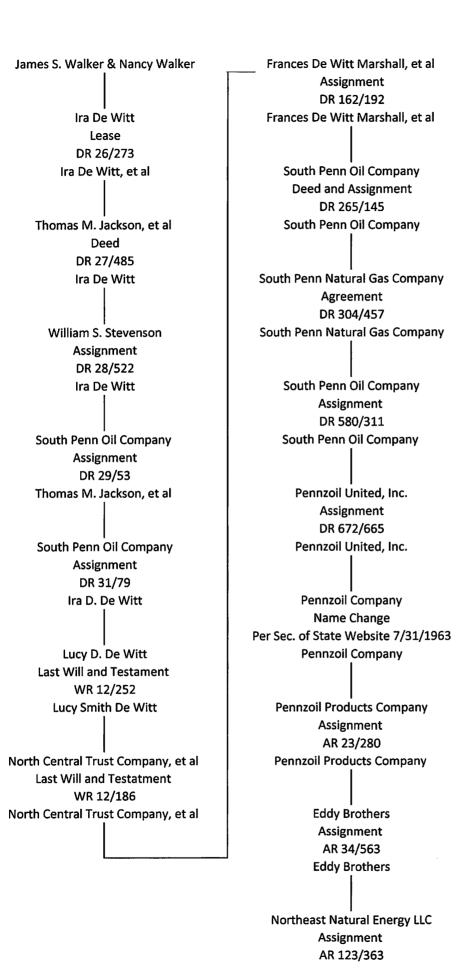
MAR 1 6 2018

XTO Energy Inc. 4706101795

Northeast Natural Energy
Assignment
BK 132/311

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Office of Oil and Gas

MAR 16 2018



RECEIVED
Office of Oil and Gas

MAR 1 6 2018



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 2H and 4H

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 Statler Run Road (State Route 27), Country Road (State Route 25/3), and Dee Hollow Road (State Route 919) on the enclosed survey plat.

Sincerely,

Jeannie Morgan Johnson, CPL

Jonarga Johnson

Vice President - Land Operations

Enclosure

Office of Oil and Gas

MAR 1 6 2018

WV Department of

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

Date of Notic	ce Certification: 11/20/2017		PI No. 47		
				Well No. Kass	ay 4H
		W	ell Pad N	lame: Kassay	
Notice has l					
	e provisions in West Virginia Code §	22-6A, the Operator has provid	led the req	uired parties v	vith the Notice Forms listed
	tract of land as follows:	_	.•		
State:	West Virginia		asting:	569104.1	<del> </del>
County:	Monongalia		orthing:	4390157.0	
District:	Clay	Public Road Access			3 (Yank Hollow Road)
Quadrangle:	Blacksville	Generally used farm	n name:	Kassay	
Watershed:	Dunkard Creek				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shed the owners of the surface describequired by subsections (b) and (c), sec surface owner notice of entry to sur of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall te have been completed by the applicant	ed in subdivisions (1), (2) and ction sixteen of this article; (ii) to vey pursuant to subsection (a), this article were waived in worder proof of and certify to the	(4), subs hat the red , section t riting by	ection (b), sec quirement was en of this arti the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required ECK ALL THAT APPLY		Notice Co	ertification	OOG OFFICE USE ONLY
☐ 1. NO1	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS C			RECEIVED/ NOT REQUIRED
■ 2. NO	ΠCE OF ENTRY FOR PLAT SURV	EY or 🔲 NO PLAT SURVEY	WAS CO	ONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLANAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	SURFAC	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED
■ 5. PUE	BLIC NOTICE				RECEIVED
■ 6. NO	TICE OF APPLICATION				RECEIVED

#### **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 person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the person may be made by affidavit of person of Notice to the the return receipt card or other postal receipt for certified mailing. NOV 2 2 2017

WW-6AC (1/12)

#### Certification of Notice is hereby given:

THEREFORE, I	Hollie M. Medley , hav	e read an	d understand	the notice requirements within West Virginia Code § 22-
6A. I certify tha	t as required under West Virginia Co	ode § 22-	6A, I have se	erved the attached copies of the Notice Forms, identified
above, to the re	quired parties through personal servi	ce, by re	gistered mail	or by any method of delivery that requires a receipt or
				examined and am familiar with the information submitted
				nquiry of those individuals immediately responsible for
				d complete. I am aware that there are significant penalties
	alse information, including the possibil			
3	, 3 1		P	
Well Operator:	Northeast Natural Energy LLC		Address:	707 Virginia Street East, Suite 1200
By:	Hollie M. Medley			Charleston, WV 25301
Its:	Regulatory Manager		Facsimile:	304-241-5972
Telephone:	304-212-0422		Email:	hmedley@nne-llc.com
	SIONER	401	20:00	medy
3	M NOTARY SEAL	Subscr	ibed and swo	orn before me this 21 day of November 2017.
T <sub>i</sub>	O CURIOTORUED ALLEN	0	1.cla	O DIA
= (	CHRISTOPHER ALLEN PATTERSON		Sin	llı fat Notary Public
=	PAITERDON S.	M. C.		10 2018
1 3	N: Co. 18: 23	My Co	mmission Ex	spires June 18, 2018
	EXP JUNE - 2			

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="deepprivacyofficer@wv.gov">deepprivacyofficer@wv.gov</a>.

RECEIVED Office of Oil and Gas

NOV 2 2 2017

API NO. 47-		
OPERATOR WE	ELL NO.	Kassay 4H
Well Pad Name:	Kassay	

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

Noti	ce Time Requireme	ent: notice shall be provi	ided no later	than the filing date of permit application.	
	e of Notice: 11/9/2017 ce of:	Date Permit Applica	tion Filed:	11/20/2017	
<b>V</b>	PERMIT FOR ANY	<del></del>		APPROVAL FOR THE OF AN IMPOUNDMENT OR PIT	
Deliv	very method pursua	ant to West Virginia C	ode § 22-6A	-10(b)	
	PERSONAL	☑ REGISTERED	□ ме	THOD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RE	CEIPT OR SIGNATURE CONFIRMATION	
oil and description of the control o	and gas leasehold being ribed in the erosion are ator or lessee, in the e e coal seams; (4) The of work, if the surface to undment or pit as des a water well, spring of ide water for consumptions and well work activities ection (b) of this section ds of the sheriff requision of this article to e R. § 35-8-5.7.a requ	g developed by the proposed sediment control plans avent the tract of land on vowners of record of the stract is to be used for the process of the supply source loop to be used for the proposed of the supply source loop to be used for the proposed of the proposed of the used for the proposed for the used for the used for the used for the proposed for the used f	sed well work submitted purwhich the we urface tract of clacement, conthis article; (conthis article; (conthis article; for animals; if more than the application of	located; (2) The owners of record of the surface tract of k, if the surface tract is to be used for roads or other lar resuant to subsection (c), section seven of this article; (3 ll proposed to be drilled is located [sic] is known to be retracts overlying the oil and gas leasehold being devel instruction, enlargement, alteration, repair, removal or a solution of the surface owner or water purveyor who is known one thousand five hundred feet of the center of the well and (6) The operator of any natural gas storage field withree tenants in common or other co-owners of interest incant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2) not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the sing as provided in section 15 of this rule.	nd disturbance as 3) The coal owner, a underlain by one or oped by the proposed abandonment of any a to the applicant to Il pad which is used to within which the as described in on described in the Notwithstanding any alandowner. W. Va.
<b>Ø</b> A	pplication Notice	☑ WSSP Notice ☑ E&	S Plan Not	ice	
_	JRFACE OWNER(s	)		☐ COAL OWNER OR LESSEE	
	e: See Attachment		-	Name: See Attachment	<del></del>
Addr	ress:		_	Address:	<del>_</del>
Nam	e:	······	_	COAL OPERATOR	RECEIVED Office of Oil and Gas
			_	Name:	Office of C
				Address:	NOV 2 2 ZUI
		) (Road and/or Other Di	sturbance)		— NO .
	e: See Attachment		_	☑ SURFACE OWNER OF WATER WELL	WV Department of Environmental Protection
Addr				AND/OR WATER PURVEYOR(s)	Environment
Nam				Name: See Attachment	
Addr	ress:		-	Address:	<del></del>
			_	OPERATOR OF ANY NATURAL GAS ST	ORAGE FIELD
SU	JRFACE OWNER(s	) (Impoundments or Pits	<u>,                                    </u>	Name:	
Nam	e:		·	Address:	
Addr	ress:		<del>_</del>		<u> </u>
			_	*Please attach additional forms if necessary	

NOV > 2 2017 API NO. 47-\_

OPERATOR WELL NO. Kassay 4H

WV Department of Well Pad Name: Kassay Environmental Protection

#### Notice is hereby given:

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.

#### 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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oiland-gas/pages/default.aspx.

#### **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

API NO. 47	
OPERATOR WELL	NO. Kassay 4H
Well Pad Name: Kass	ay

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 as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief Office of Oil and Gas

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

NOV 2 2 2017

WV Department of Environmental Protection

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.

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API NO. 47-\_\_\_\_OPERATOR WELL NO. Kassay 4H
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(c)(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.

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API NO. 47-OPERATOR WELL NO. Kassay 4H Well Pad Name: Kassay

Notice is hereby given by:

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 depprivacyofficer@wv.gov.



Subscribed and sworn before me this 21 day of November, 2017

Notary Public

My Commission Expires June 18, 2018

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Kassay 4H

#### 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 Office of Oil and Gas

NOV 2 2 2017

WV Department of Environmental Protection

#### 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

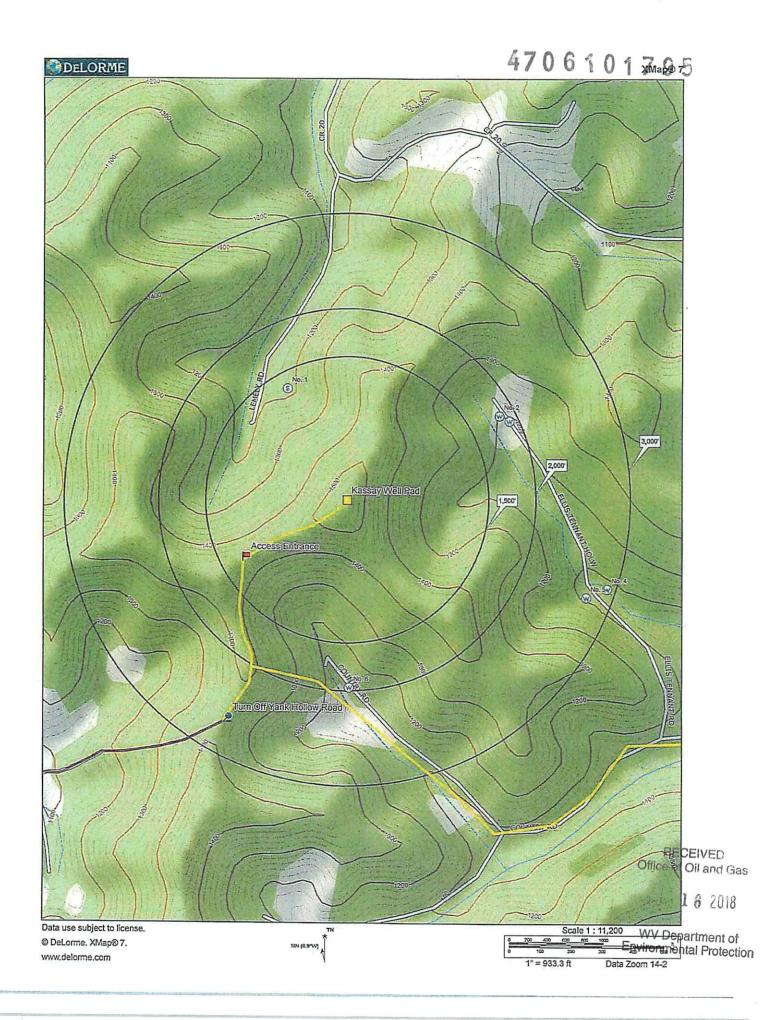
Nancy Carpenter, et al 1343 Bunner Ridge Road / Fairmont, WV 26554

Angela Martin Mayle 477 Country Road Fairview, WV 26570

Office of Oil and Gas

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WV 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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Operator Well No. Kassay

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

	equirement:	Notice shall be provide	ded at	least SEVEN (7) day	s but no more than	1 FORTY-FIVE	(45) days 1	orior to
Date of Notice:	12/18/2013	Date of Plant	ied E	ntry: 12/26/2013				
Delivery metho	od pursuant	to West Virginia Coo	le § 2	2-6A-10a		Si a		
☐ PERSONA	AL I	REGISTERED		METHOD OF DEL	IVERY THAT RE	QUIRES A		
SERVICE		MAIL		RECEIPT OR SIGN	ATURE CONFIR	MATION		
on to the surface but no more that beneath such tra owner of miner and Sediment C Secretary, whice	e tract to cond in forty-five d act that has fil als underlying Control Manua h statement sl	ode § 22-6A-10(a), Product any plat surveys a lays prior to such entry led a declaration pursug such tract in the coural and the statutes and hall include contact in obtain copies from the	require y to: ( lant to nty tax rules forma	ed pursuant to this art 1) The surface owner o section thirty-six, ar x records. The notice related to oil and gas ttion, including the ad	icle. Such notice s of such tract; (2) t ticle six, chapter to shall include a sta exploration and pi	shall be provided a to any owner or le wenty-two of this attement that copie roduction may be	at least sevessee of coaccode; and obtained f	en days al seams (3) any ate Erosion arom the
Notice is hereb	y provided t	0:						
■ SURFACE	OWNER(s)			COAL	OWNER OR LE	SSEE		
Name: See Attach	ment			Name: See	Attachment			
Address:				Address: _				
Address:				■ MINE	RAL OWNER(s)			
				Name: See	Attachment			
Name:				Address: _				
Address:				*please attach	additional forms if neo	cessarv		
7				prease attach	additional forms if nec	cessary		
a plat survey on State:	st Virginia Co the tract of la West Virignia			Approx. Latitu	ide & Longitude:	569112.37, 4390193.7	6 (UTM NAD)	o conduct
	Clay			Public Road A Watershed:	ccess:	State Rt. 20 (Memorial Dunkard	Road)	
e de la company	Blacksville, WV			Generally used	farm name:	Kassay		
Copies of the st may be obtained Charleston, WV	ate Erosion and from the Se / 25304 (304 he Secretary I	nd Sediment Control I cretary, at the WV De -926-0450). Copies of by visiting <u>www.dep.v</u>	Manua partm of such	al and the statutes and tent of Environmental a documents or additi	I rules related to oi Protection headquonal information re	uarters, located at	601 57 <sup>th</sup> S al drilling	treet, SE, may be SEIVED Oil and Gas
Well Operator:				Address:	707 Virginia Street East	, Suite 1200		2 2 2017
Telephone:	304.241.5752	Э			Charleston, WV 25301		MOA	<u> </u>
Email:	hmedley@nne-ll	c.com		Facsimile:	304.241.5972		7178	Department of mental Protection
							Environ	mental

#### 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>.

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
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	16005 Fleming Road Amesville, OH 45711
Jarrod Williams	P.O. Box 311 Pentress, WV 26544
Jimmy Randall Tennant	15 Clint Moore Road Fairview, WV 26570
Jody L. Varner, A Single Man	P.O. Box 102 181 Water Street Duncan Falls, OH 43734
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

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Maiatia Minaia Madia	C21 Doubles of David Friedrich WW 20070	7
Kristie Virgie Vedis	631 Daybrook Road Fairview, WV 26579	
Larry K Sine, Married  Larry Tennant, A Married Man	1101 Buffalo Road Mannington, WV 26582 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	
Lisa And William Mccammon	6549 South Blackburn Road Athens, OH 45701	
Loretta Fluharty	Rt 3 Box 155A Mannington, WV	
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	
Lydia L. Troutman	46 Breezy Drive Morgantown , WV 26501	1
Mabel L Mcafee, Married	5208 Secretariat Run Spring Hill, FL 34609	
Mabel L. Mcafee, A Widow	5208 Secretariat Run Spring Hill, FL 34609	
Mark Varner, A Single Man	480 High Street Nelsonville, OH 45764	
Mary J. Pemberton, A/K/A Mary	149 Honeysuckle Lane Huntington, WV 25701	
Mary Liming, A Married Woman		
	4341 Mason Dixon Highway Core, WV	
Mary R. Mccullough, A Widow	1646 Morris Stret Washington, PA 15301	-0
Michelle Dawn Johnson And Eric	3306 Mason Dixon HWY Core, WV 26541	_
Myrtle L. Sine	8044 Smokey Drain Road Core, WV 26529	>30 une
Nehemiah Kassay and Patty A. Kassay	1991 Daybrook Road, Fairview, WV 26570	300
Nehemiah Kassay And Patty A. Kassay	1991 Daybrook Road, Fairview, WV 26570	RS
Nola M Williams, Widow	61 Vermillion Drive Pentress, WV 26544	
Pamela Brown And Carl Brown	1327 Irish Road Philo, OH 43771	1
Pamela J. Yurisko	RR 3 Box 197B Shinnston, WV26431	4
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	2./
Peggy A Morris, Married	37534 Landis Ave. Zephyrhills, FL 33541	17. V
Raymer Tennant	154 Behler Road Fairview, WV 26570	RS
Rebecca Gail Foley	1175 Range Road Wadestown, WV 26590	/
Rebecca Lynne Strahler	307 Marion Street Marietta, OH 45750	∩. √
Richard Tennant	Rt 2 Box 335 C Fayetteville, ,WV 25840	
Rickey Jane Buchanan, A	4603 Red Tail Hawk Lane Waxhaw, NC 28173	
Robert Ora Wheeler And Paula	5210 Cass Street Oak Lawn, IL 60453	
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 Gas
Susan L. Michael, A/K/A Susan	4256 Crossroads Road Fairview, WV 26570	Office of Oil and Gas
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	NUV
Tommy J. Eddy, Sr., A/K/A	3027 Daybrook Road Fairview, WV 26570	WV Department of environmental Protection
Troy L. Tennant And Anna L.		Environment
Twyla Hinds Snopps	Rt 2 Box 367 Lost Creek, WV 26385	

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

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

WW-6A4 (1/12)

Operator Well No. Kassay 4H

# 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.

Notice Time Date of Noti	Requirement: Notice shall be provided at l ce: 11/09/2017 Date Perm	east TEN (10) days prior to filing a nit Application Filed: 11/20/2017	permit application.	
Delivery me	thod pursuant to West Virginia Code § 22	-6A-16(b)		
☐ HAND DELIV	CERTIFIED MAIL RETURN RECEIPT REQU	JESTED		
receipt reque drilling a hor of this subse- subsection m	W. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner rizontal well: <i>Provided</i> , That notice given potion as of the date the notice was provided that ay be waived in writing by the surface owner only, facsimile number and electronic mail additional surfaces.	r notice of its intent to enter upon the ursuant to subsection (a), section to the surface owner: <i>Provided, how</i> r. The notice, if required, shall include	ne surface owner's land on of this article satisfice vever, That the notice rude the name, address,	d for the purpose of es the requirements requirements of this telephone number,
Notice is he Name: Please Address:	ereby provided to the SURFACE OWN	NER(s):  Name: Please See Attachme Address:	int	
Pursuant to V the surface o State: County: District:	ereby given: West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hori. West Virginia Monongalia Clay	zontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access:		
Quadrangle: Watershed:	Blacksville  Dunkard Creek	Generally used farm name:	Kassay	
Pursuant to facsimile nur related to ho	e <b>Shall Include</b> : West Virginia Code § 22-6A-16(b), this number and electronic mail address of the opinizontal drilling may be obtained from the State of the Street, SE, Charleston, WV 25304 (30)	erator and the operator's authorize Secretary, at the WV Department of	ed representative. Add f Environmental Prote	litional information ection headquarters,
	ereby given by:			
	Northeast Natural Energy LLC	Authorized Representative:		
Address:	707 Virginia Street East, Suite 1200	Address:	48 Donley Street, Suite 6	RECEIVED
Charleston, WV		Morgantown, WV 26501		Office of Oil and Gas
Telephone:	304-414-7060	Telephone:	304-212-0422	0.0017
Email:	hmedley@nne-llc.com	Email:	hmedley@nne-llc.com	NOV 2 2 2017
Facsimile:	304-414-7061	Facsimile:	304-241-5972	
				WV Department of Environmental Protection

#### Oil and Gas Privacy Notice:

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Kassay 4H

#### 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

WW-6A5 (1/12)

Operator Well No. Kassay 4H

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

Date of Notic	Requirement: notice shall be provided ce: 11/09/2017 Date Permit	Application Filed: 11/20/2017	
Delivery met	thod pursuant to West Virginia Code	§ 22-6A-16(c)	
	FIED MAIL  RN RECEIPT REQUESTED	HAND DELIVERY	
eturn receipt he planned of equired to be drilling of a lanages to the	requested or hand delivery, give the su operation. The notice required by this e provided by subsection (b), section ter horizontal well; and (3) A proposed su he surface affected by oil and gas operat	arface owner whose land will be used for subsection shall include: (1) A copy of this article to a surface owner who arface use and compensation agreement ions to the extent the damages are compensation.	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for appensable under article six-b of this chapter. sted in the records of the sheriff at the time
	eby provided to the SURFACE OWN s listed in the records of the sheriff at th		
	ee Attacried	Address:	
Notice is her Pursuant to Woperation on State: County: District: Quadrangle:	eby given: Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia  Monongalia Clay  Blacksville	Address:e is hereby given that the undersigned	
Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: Pursuant to Woo be provide norizontal we surface affect information readquarters,	eby given:  Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include:  Vest Virginia Code § 22-6A-16(c), this ed by W. Va. Code § 22-6A-10(b) to ell; and (3) A proposed surface use and ted by oil and gas operations to the extellated to horizontal drilling may be of located at 601 57th Street, SE, Chi	Address:  The is hereby given that the undersigned to drilling a horizontal well on the transport of the property of the prope	act of land as follows:  569104.1  4390157.0  County Route 25/3 (Yank Hollow Road)
Notice is here Pursuant to We operation on State: County: District: Quadrangle: Watershed:  This Notice Sepursuant to We obe provided norizontal we surface affect information readquarters, gas/pages/def	eby given:  Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include:  Vest Virginia Code § 22-6A-16(c), this ed by W. Va. Code § 22-6A-10(b) to sell; and (3) A proposed surface use and ted by oil and gas operations to the extended to horizontal drilling may be of located at 601 57th Street, SE, Chault.aspx.	Address:  Address:  The is hereby given that the undersigned to of drilling a horizontal well on the transport of the image of the imag	act of land as follows:  569104.1  4390157.0  County Route 25/3 (Yank Hollow Road)  Kassay  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional // Department of Environmental Protection ) or by visiting www.dep.wv.gov/oil-and-
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice Sepursuant to Woo be provide norizontal we surface affect information readquarters, gas/pages/def	eby given:  Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia  Monongalia  Clay  Blacksville  Dunkard Creek  Shall Include:  Vest Virginia Code § 22-6A-16(c), this ed by W. Va. Code § 22-6A-10(b) to sell; and (3) A proposed surface use and the the detection of the extent of the	Address:  The is hereby given that the undersigned be of drilling a horizontal well on the transport of the compensation agreement containing a tent the damages are compensable under the damages are compensable	act of land as follows:  569104.1  4390157.0  County Route 25/3 (Yank Hollow Road)  Kassay  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional // Department of Environmental Protection ) or by visiting www.dep.wv.gov/oil-and-

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NOV 2 2 2017

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> RECEIVED Office of Oil and Gas

NOV 2 2 2017

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

### **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

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I,	DBJECTION				
ww-6A and attachments consisting of pages one (1) through, includ required, and the well plat, all for proposed well work on the tract of land as follows:  State:	. No do Do WW. Charles				
WW-6A and attachments consisting of pages one (1) through, includ required, and the well plat, all for proposed well work on the tract of land as follows:  State: West Virginia Easting	Application for a Well Work Permit on Form				
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State: West Virginia Easting	ing the crosion and seament control plan, if				
TITIVI NATIX3	2: (2H) 569098.6; (4H) 569104.1; (6H) 569109.5; (10H) 569115.0				
County: Monongalia VIIVI NAD 83 Northi					
District: Clay Public Road Access:	County Route 25/3 (Yank Hollow Road)				
Quadrangle: Blacksville Generally used farm nam	ie: Kassay				
Watershed: Dunkard Creek					
I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.					
*Please check the box that applies FOR EXEC	CUTION BY A NATURAL PERSON				
■ SURFACE OWNER Signature:	Mart				
	Hard E. Smit				
☐ SURFACE OWNER (Impoundments/Pits)					
☐ COAL OWNER OR LESSEE Company: Pr	EUTION BY A CORPORATION, ETC.				
☐ COAL OPERATOR					
□ WATER PURVEYOR					
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD Date:					

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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 VOLUNTARY STATEMENT OF NO OBJECTION

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issue the well	work permit at any time.	os vilicon staton	iones of no v	oojeen	on by an such persons, the secretary may
	VOLUNTARY STA	TEMENT	OF NO	OBJ	ECTION
1, Tarn	, ,	ead the Instructi	ons to Perso	ons Na	med on Page WW-6A and the associated
provisions list	ted above, and that I have received copies o	f a Notice of A	pplication, a	n App	lication for a Well Work Permit on Form
WW-bA and	attachments consisting of pages one (1) the well plat, all for proposed well work on the	rough	, inclu	ding t	he erosion and sediment control plan, if
State:	Most Vissiala		Faction	na.	(2H) 569098.6; (4H) 569104.1; (6H) 569109.5; (10H) 569115.0
County:	Monongalia	UTM NAD	North	_	(2H) 4390146.1; (4H) 4390157.0; (6H) 4390167.9; (10H) 4390178.6
District:	Clay	Public Roa			County Route 25/3 (Yank Hollow Road)
Quadrangle:	Blacksville	Generally t	ised farm na	me:	Kassay
Watershed:	Dunkard Creek				
issued on thos		described in the			
*Please check	the box that applies		FOR EXE	CUTI	ON BY A NATURAL PERSON
□ SURFAC	CE OWNER		Signature.	13	roughwest
□ SURFAC	CE OWNER (Road and/or Other Disturba	ance)	Print Name Date:	Francis	-12-2017
□ SURFAC	CE OWNER (Impoundments/Pits)		FOR EXE	CUTI	ON BY A CORPORATION, ETC.
□ COAL C	WNER OR LESSEE		Company:		
□ COAL O	PERATOR	*	By: Its:		
■ WATER	PURVEYOR				
□ OPERA?	TOR OF ANY NATURAL GAS STORA	GE FIELD	Date:		

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WW-6AW (1-12)

API NO. 47-	-	
OPERATOR WEL	L NO.	Kassay 2H,4H,6H,10H
Well Pad Name: K	assay	

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State:	West Virginia	UTM NAD	Postings	(2H) 569098.6; (4H) 569104.1; (6H) 569109.5; (10H) 569115.0
	Monongalia		Northing:	
District:	Clay	Public Roa		County Route 25/3 (Yank Hollow Road)
Quadrangle:	Blacksville	Generally (	ised farm name:	Kassay
Watershed:	Dunkard Creek			
I further state issued on thos	that I have no objection to the planned work de materials.	escribed in the	ese materials, and	I have no objection to a permit being
*Please check	the box that applies		FOR EXECUT	TION BY A NATURAL PERSON
□ SURFAC	CE OWNER		Signature:	
□ SURFAC	E OWNER (Road and/or Other Disturban	ice)	Print Name:	
□ SURFAC	CE OWNER (Impoundments/Pits)			TION BY A CORPORATION, ETC.
■ COALO	WNER OR LESSEE		Company: CONS	OL Mining Company LLC
☐ COAL OPERATOR		By: Casey V. Saunders Its: Manager Coal/Gas Coordination		
□ WATER	PURVEYOR		Signature:	g. Summy
□ OPERAT	FOR OF ANY NATURAL GAS STORAG	E FIELD	Date: 03/08/2018	

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MAR 1 6 2018

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

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

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I, Alex O'Neill , hereby state that I I provisions listed above, and that I have received or WW-6A and attachments consisting of pages one required, and the well plat, all for proposed well wo State:  West Virginia County:  Monongalia District: Clay Quadrangle: Blacksville Watershed: Dunkard Creek  I further state that I have no objection to the planned issued on those materials.	ppies of a Notice of A  (1) through 16  rk on the tract of land  UTM NAE  Public Roa  Generally to	pplication, an App , including to as follows: 0 83 Easting: Northing: dd Access: used farm name:	clication for a Well Work Permit on Form the erosion and sediment control plan, if (2H) 56908 6 (4H) 569104 1 (6H) 569109 5 (10H) 569115 0 (2H) 4390148.1 (4H) 4390157.0 (6H) 4390167.9 (10H) 4390178.8 County Roule 25/3 (Yank Hollow Road) Kassay
*Please check the box that applies		FOR EXECUTI	ON BY A NATURAL PERSON
☐ SURFACE OWNER		Signature:	
☐ SURFACE OWNER (Road and/or Other D	isturbance)	Print Name:	
☐ SURFACE OWNER (Impoundments/Pits)			
■ COAL OWNER OR LESSEE		Company: Murray A	ION BY A CORPORATION, ETC.  vnerican Energy, Inc.
☐ COAL OPERATOR		By: Alex O'Neitl Its: Coal, Oil and pas	Relations Manager
☐ WATER PURVEYOR		Signature:	k/1 //
☐ OPERATOR OF ANY NATURAL GAS S	TORAGE FIELD	Date: 03/12/2018	

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#### 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 4H

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.

Very Truly Yours, Hay L. 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

Office of Oil and Gas
NOV 2 2 2017
Wy Debrit next of Environmental Proceedion

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
Cl-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

RECEIVED
Office of Oil and Gas

NOV 2 2 2017



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

**OWNER** 



707 VIRGINIA STREET SUITE 1200 CHARLESTON, WV 25301

MERCER

WVDEP OOG ACCEPTED AS-BUILT 1/5/2018

### KASSAY WELL PAD **AS-BUILT**

CLAY DISTRICT, MONONGALIA COUNTY, WV **JANUARY 2017** 

(REVISED DECEMBER 2017)

SHEET INDEX
1. TITLE SHEET
2-3. EVACUATION ROUTE/ PREVAILING WINDS

4. AS-BUILT OVERVIEW 5-11. AS-BUILT 12-13. ACCESS ROAD PROFILES 13a. 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 1H - 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

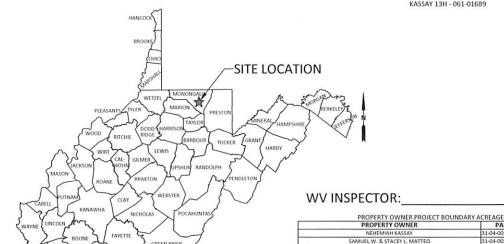
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055



12-14-17

ANDREW BENCHEK

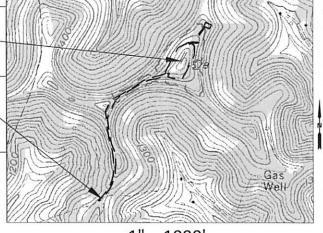
DATE



COORDINATES CENTER OF WELLS (NAD 83) LAT: 39° 39' 30.58" LONG: 80° 11' 40.03" (NAD 27) LAT: 39° 39' 30.29" LONG: 80° 11' 40.77" SITE ENTRANCE (NAD 83)

LAT: 39° 39' 07.12" LONG: 80° 11' 57.32" (NAD 27) LAT: 39° 39' 06.83"

LONG: 80° 11' 58.05"



= 10003000'

TITLE SHEET

KASSAY WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV

OF 21

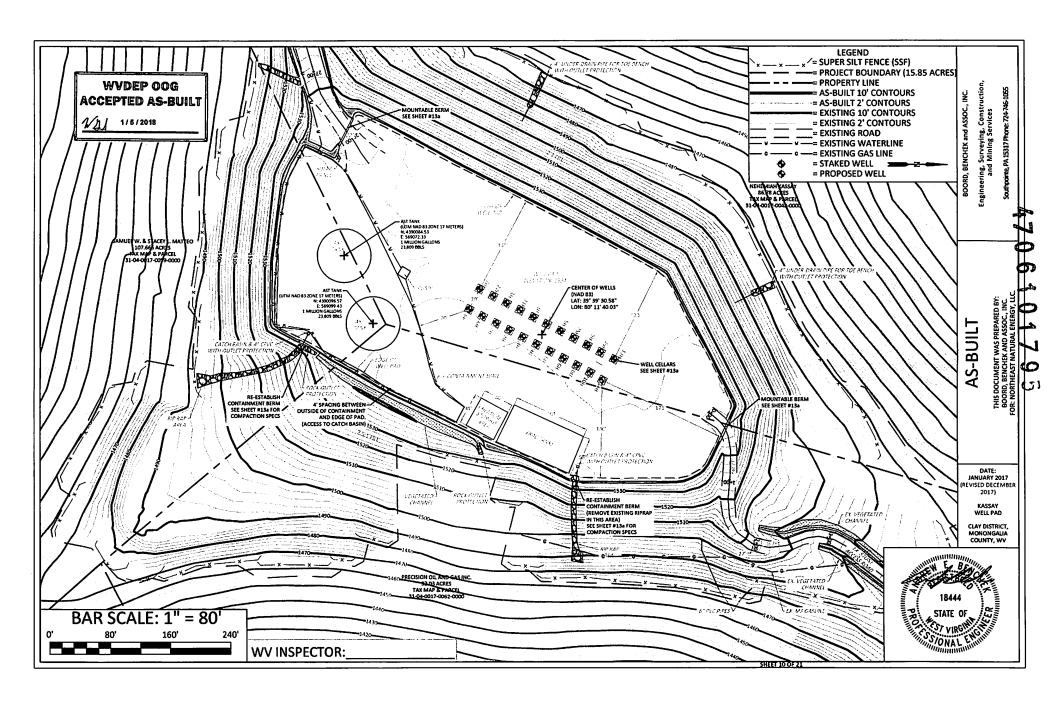
ACRES

3.24

SHEET

PARCEL#

31-04-0017-0059-0000



API#6101689 API#6101694 API#6101695

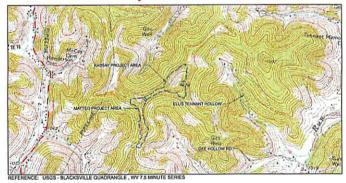
## EROSION & SEDIMENT CONTROL PLAN KASSAY WELL PAD

APPROVED WVDEP OOG

MONONGALIA COUNTY, WEST VIRGINIA FOR

### NORTHEAST NATURAL ENERGY LLC

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





PROJECT NO. 1338001

DECEMBER 2014

DIEFFENBAUCH & HRITZ, LLC



	INDEX	
DRAWING NO.	TITLE	
1	TITLE SHEET	
2	GENERAL NOTES	
3	EXISTING SITE PLAN	
4	OVERALL SITE PLAN	
5-8	PROPOSED SITE PLAN	
9-10	ACCESS ROAD PROFILE	
11	SOLS PLAN	
12-15	SITE RESTORATION PLAN	
16	REVEGETATION PLAN	
17	TYPICAL SECTIONS	
18-20	EAS DETAILS	

KASSAY LIMITS OF DISTURBANCE BREAKDOWN: OVERALL LIMITS OF DISTURBANCE: 16.65 AC

PROPOSED DESIGN ELEME ACCESS ROAD: 2-85 AC WELL PAD: 13-00 AC

LAND OWNERS KASSAY: 7.63 AC MATTEO: 3.24 AC PRECISION OIL & GAS INC: 4.76 AC

of Oil and Gas

