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**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

November 23, 2015

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-6101732, issued to NORTHEAST NATURAL ENERGY LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: KASSAY 7H  
Farm Name: KASSAY, NEHEMIAH  
**API Well Number: 47-6101732**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 11/23/2015

## PERMIT CONDITIONS

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

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

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

1) Well Operator: Northeast Natural Energy LLC 494498281 Monongalia Clay Blacksville  
Operator ID County District Quadrangle

3 256

2) Operator's Well Number: Kassay 7H Well Pad Name: Kassay

3) Farm Name/Surface Owner: Nehemiah and Patty A. Kassay Public Road Access: County Route 25/3 (Yank Hollow Road)

4) Elevation, current ground: 1,560' Elevation, proposed post-construction: 1534'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_

Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_

Horizontal  \_\_\_\_\_

6) Existing Pad: Yes or No No

47 9561 0120/2318

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 8,289' , 103' , 3,600 psi

8) Proposed Total Vertical Depth: 8,289'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19,519.58'

11) Proposed Horizontal Leg Length: 10,315'

12) Approximate Fresh Water Strata Depths: 50' , 1,248'

13) Method to Determine Fresh Water Depths: Driller's Log from Offset Wells

14) Approximate Saltwater Depths: 1,946' , 2,696'

15) Approximate Coal Seam Depths: 316' , 1,246'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

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

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_

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**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,330'	1,300'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,780'	2,750'	CTS
Production	5-1/2"	New	P-110	20	19,519'	19,489'	4,497 Cu. Ft.
Tubing	2-7/8"	New	N-80	6.5	NA	8,500'	NA
Liners							

4706101732 *Mgk 10/20/2015*

<b>TYPE</b>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	24"	30"	.375	415		4,500 psi Grout	NA
Fresh Water	13-3/8"	17 1/2"	.38"	2,760	2,000	Class A	1.23
Coal							
Intermediate	9-5/8"	12 1/4"	.395"	3,950	3,000	Class A	1.3
Production	5-1/2"	8 3/4"	.361"	12,530	9,700	50:50 Poz	1.21
Tubing	2-7/8"	NA	.217"	10,570	3,600	NA	NA
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,093.61' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,289' TVD / 19,519.58' MD along a 323 degree azimuth.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.85

22) Area to be disturbed for well pad only, less access road (acres): 13.00

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

Slot: Slot #07

Well: Kassay 7H

Wellbore: Kassay 7H PWB



Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Kassay Pad	1772945.670	422666.830	80°11'40.564"W
Local N (ft)	Local E (ft)	Grid North (US ft)	Longitude
-35.55	-18.57	39°39'29.765"N	80°11'40.788"W
Slot #07	Top Hole (RKB) to Mud Line (At Slot Slot #07)	16ft	
	Mean Sea Level to Mud Line (At Slot Slot #07)	-1534ft	
	Top Hole (RKB) to Mean Sea Level	1550ft	

Tie On: 0.00° Inc. 16.00ft MD, 16.00ft TVD, 0.00ft VS  
 24in Conductor (GL): 0.00° Inc. 40.00ft MD, 40.00ft TVD, 0.00ft VS

13.375in Casing Surface (GL): 0.00° Inc. 1300.00ft MD, 1300.00ft TVD, 0.00ft VS

9.625in Casing Intermediate (GL): 0.00° Inc. 2750.00ft MD, 2750.00ft TVD, 0.00ft VS

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

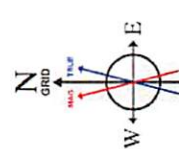
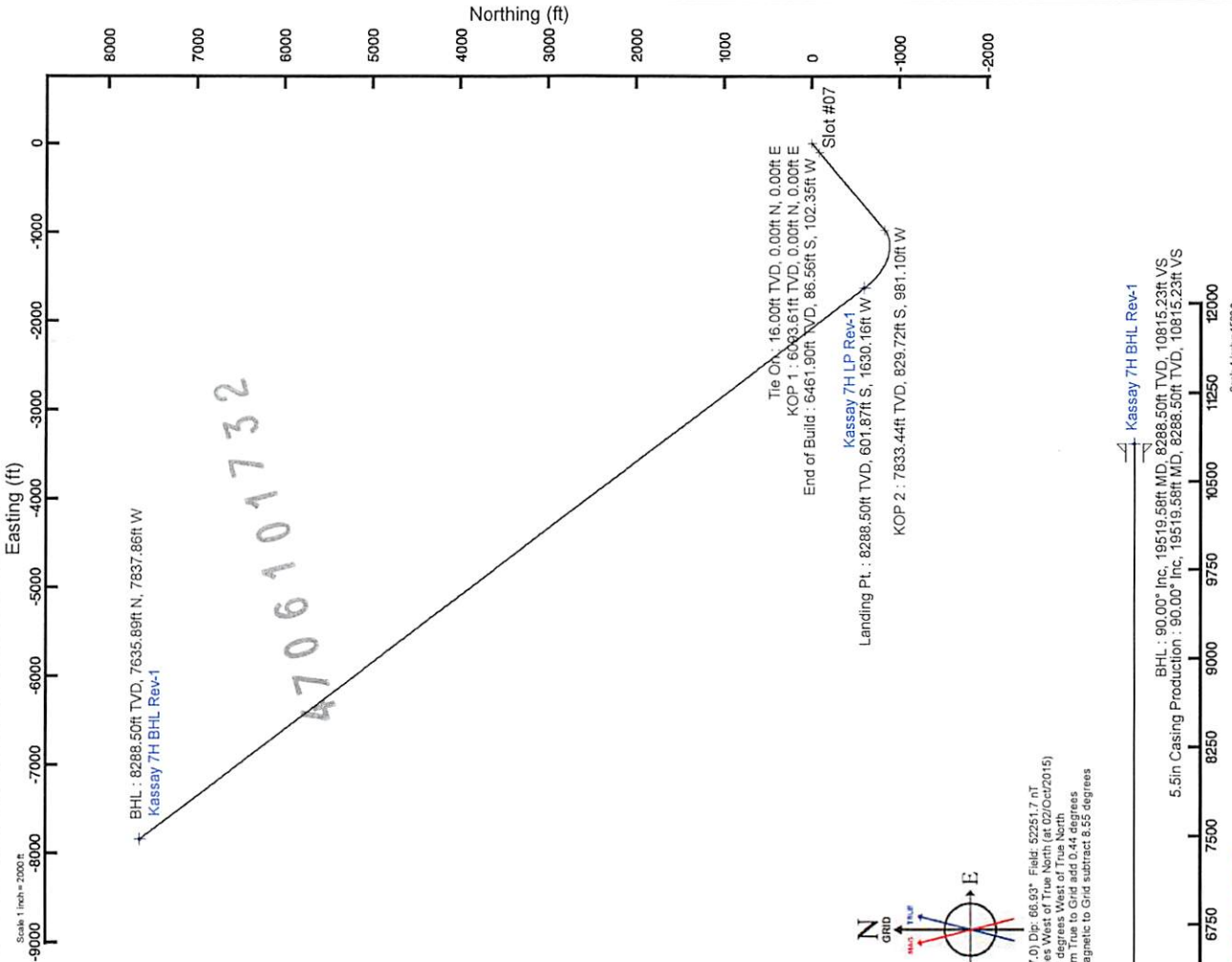
Type	Hole Size	Casing Size	Grade	GL Depth (Csg)
Conductor	28"	24"	NA	40'
Surface	17-1/2"	13-3/8"	J-55	54.5
Intermediate	12-1/4"	9-5/8"	J-55	40
				2750'

OP 1: 0.00° Inc. 6093.61ft MD, 6093.61ft TVD, 0.00ft VS  
 End of Build: 40.00° Inc. 6093.61ft MD, 6461.90ft TVD, -7.53ft VS

OP 2: 0.00° Inc. 2284.03ft MD, 2284.03ft TVD, -72.20ft VS  
 End of Build: 90.00° Inc. 9204.73ft MD, 8288.50ft TVD, 500.38ft VS

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Landing Pt.: 8288.50ft TVD, 601.87ft S, 1630.16ft W  
 KOP 1: 6461.90ft TVD, 0.00ft N, 0.00ft E  
 KOP 2: 7833.44ft TVD, 829.72ft S, 981.10ft W  
 Slot #07



BGGM (1945.0 to 2017.0) Dip: 69.93° Field: 52251.7 nT  
 Magnetic North is 8.99 degrees West of True North (at 02/Oct/2015)  
 Grid North is 0.44 degrees West of True North  
 To correct azimuth from True to Grid add 0.44 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.55 degrees

BHL: 90.00° Inc. 19519.58ft MD, 8288.50ft TVD, 10815.23ft VS  
 5.5in Casing Production: 90.00° Inc. 19519.58ft MD, 8288.50ft TVD, 10815.23ft VS

Vertical Section (ft)  
 Azimuth 323.00° with reference 0.00 N, 0.00 E

11/27/2015

WW-9  
(2/15)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Kassay 7H

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: NA

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? NA

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number unknown at this time, TBD )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

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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, etc. Synthetic 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 Hollie Medley  
Company Official (Typed Name) Hollie Medley  
Company Official Title Regulatory Coordinator

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Subscribed and sworn before me this 20th day of October, 2015  
Kush  
My commission expires January 28, 2020

WV Department of Environmental Protection  
Notary Public  
GENERAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
Kristen M. Vernon  
22 Pointe Drive  
Martinsburg, WV 26151  
My Commission Expires January 28, 2020  
11/27/2015

**Northeast Natural Energy LLC**

Proposed Revegetation Treatment: Acres Disturbed 15.85 Prevegetation pH 5-7

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 300 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

4706101732

**Temporary**

**Permanent**

Seed Type		lbs/acre	Seed Type		lbs/acre
Orchard Grass		46	Orchard Grass		46
Red Clover		8	Red Clover		8
Tetraploid Perennial Rye		16	Tetraploid Perennial Rye		16
Timothy 15	Annual Rye 15		Timothy 15	Annual Rye 15	

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

*[Handwritten Signature]*

Comments:

Title: Inspector

Date: 10/20/2015

Field Reviewed?  Yes  No

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Attachment A to WW-9

Northeast Natural Energy LLC (“NNE”) plans to utilize a closed loop process for its drilling of the Kassay 7H 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 steam will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated. 4706101732

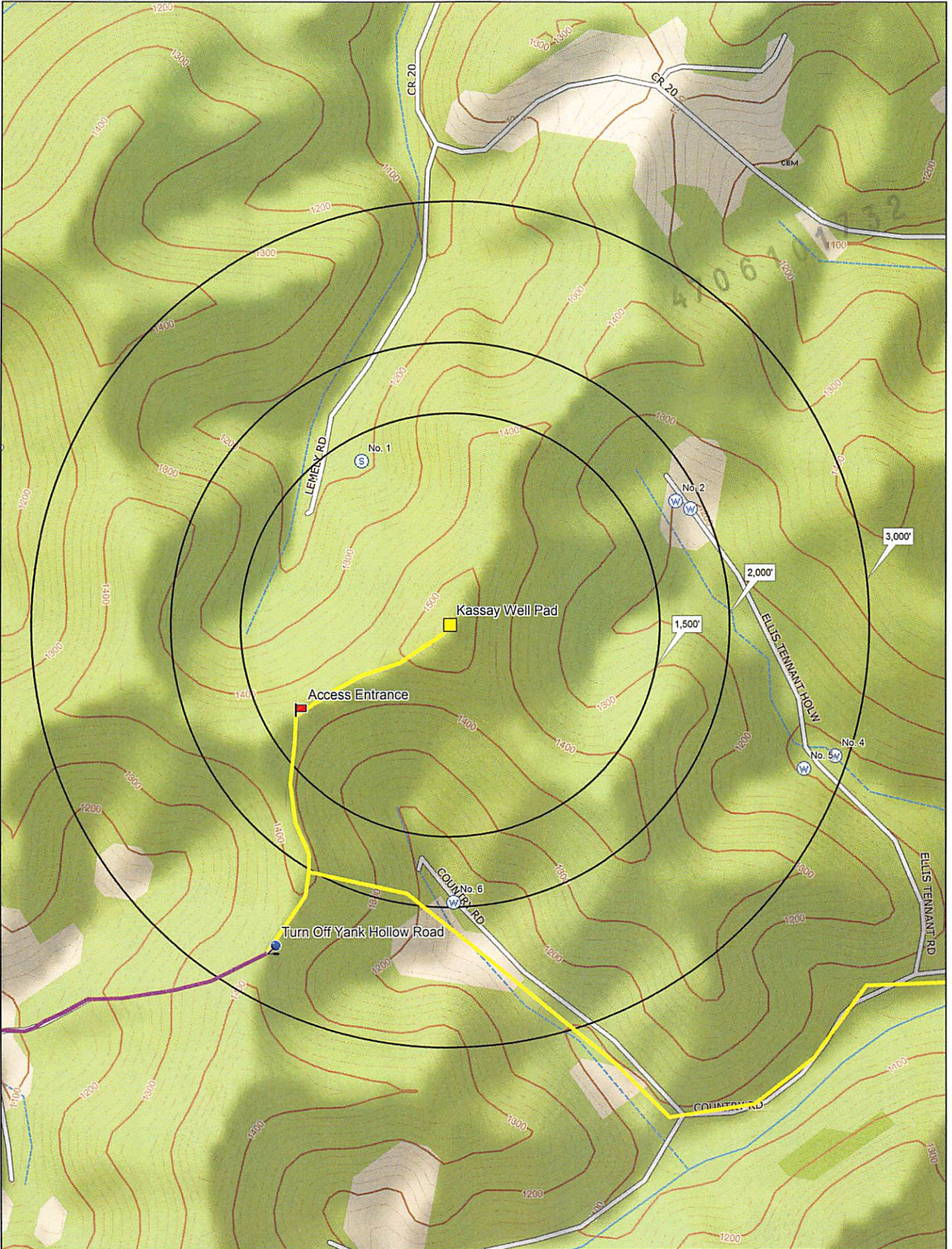
Kassay 7H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

- 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 # 2D0732540)

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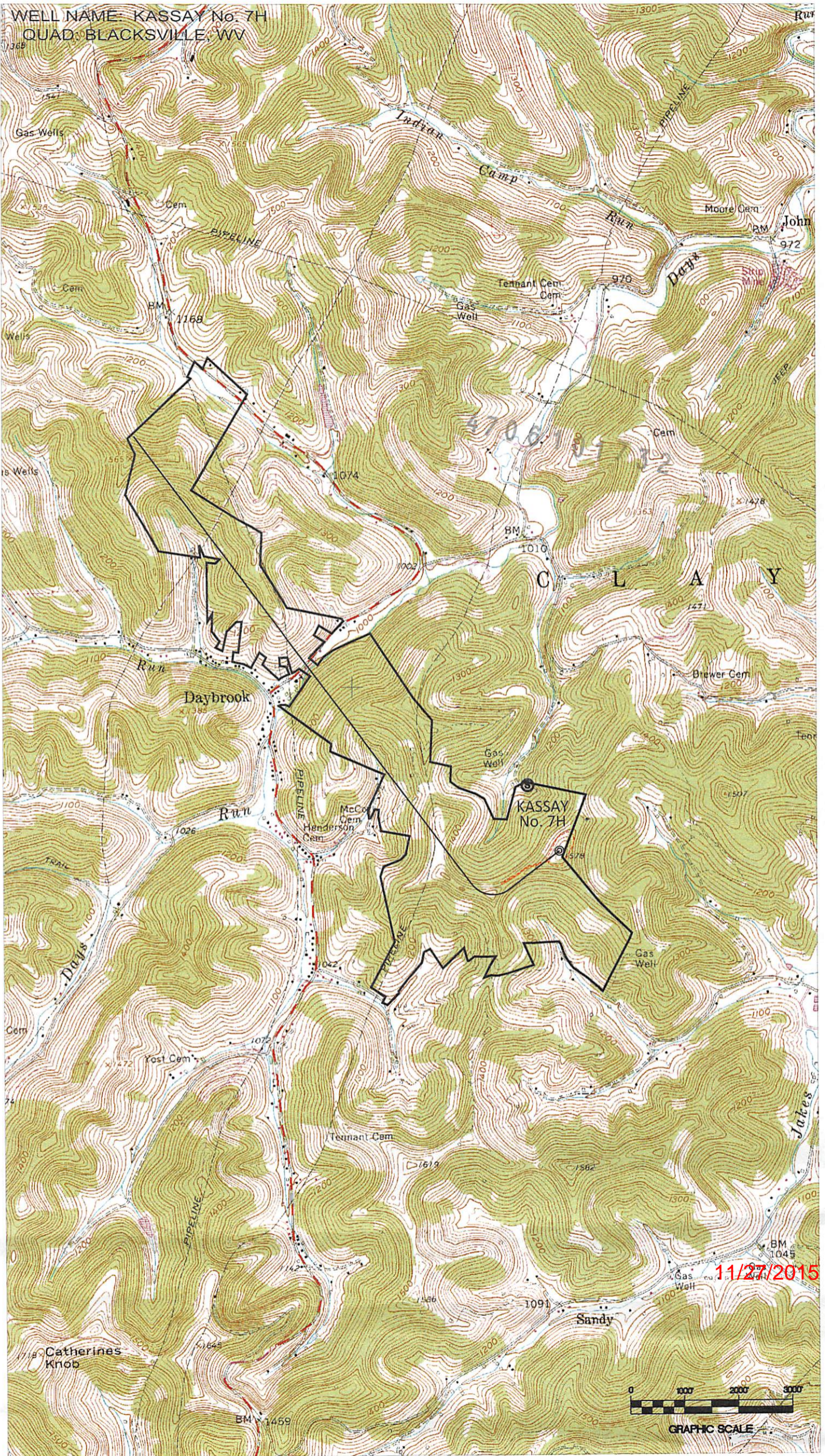


### Kassay Water Well Location

	Surface Owner/Water Purveyor	Supply Type	Tax Map and Parcel	Latitude/Longitude
1	Nehemiah 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. Martin	Well	Tax Map 17, Parcel 59.1	39.652950, -80.194444

4706101732

WELL NAME: KASSAY No. 7H  
QUAD: BLACKSVILLE, WV



11/27/2015



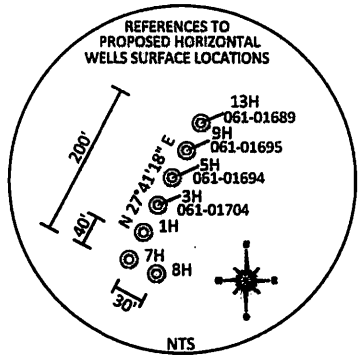
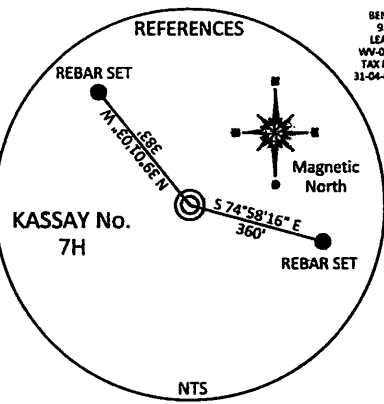
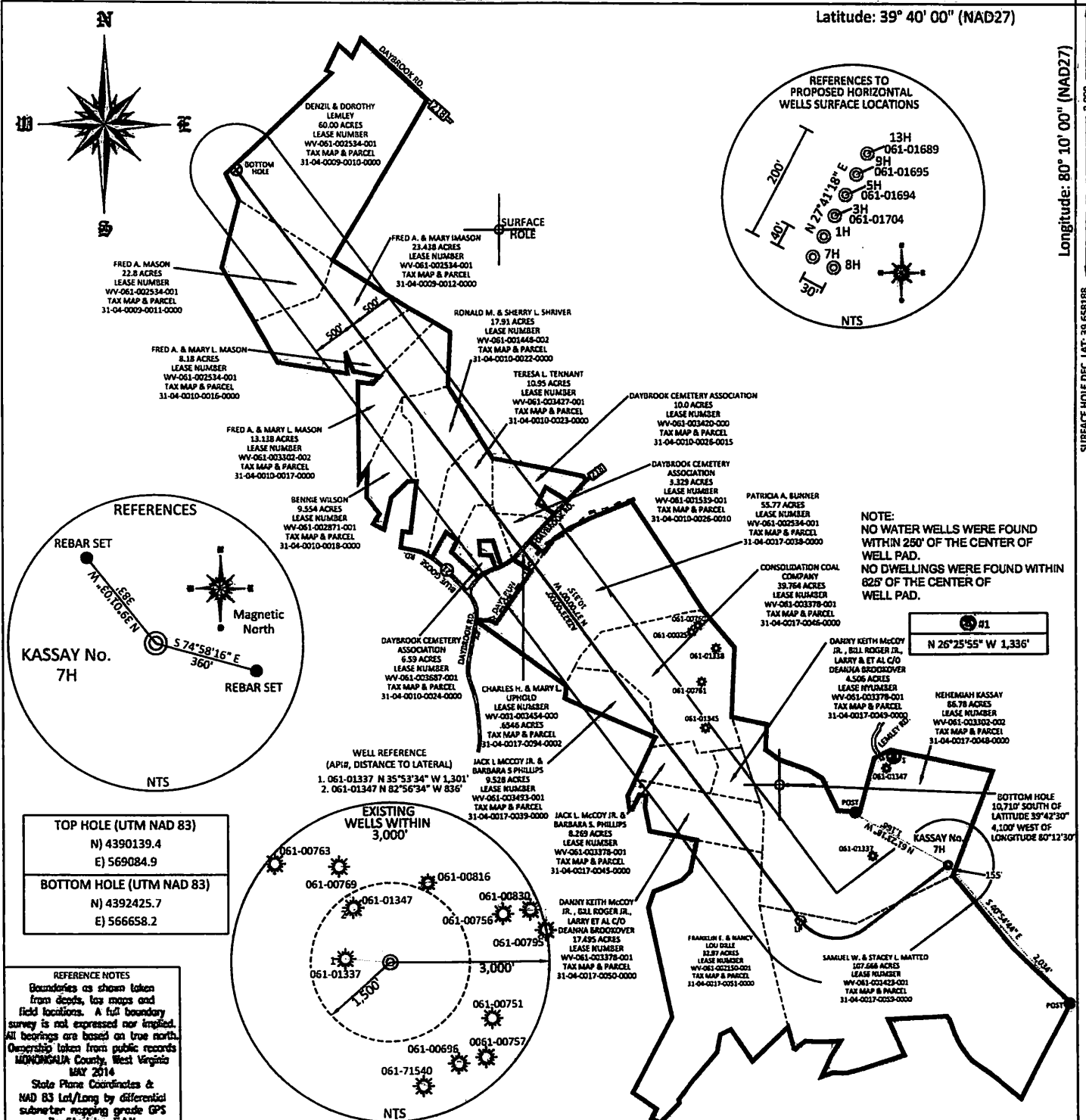
SURFACE HOLE DEC. LONG: 80.194871  
 SURVEYED LONG: 80° 11' 41.5"

7,880'

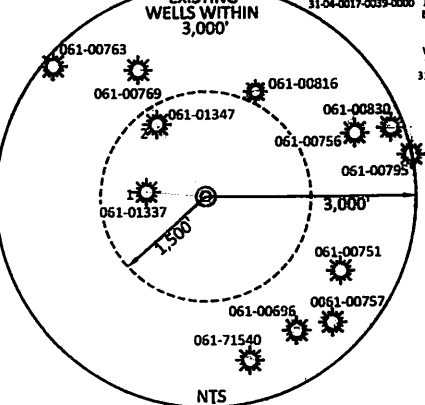
Latitude: 39° 40' 00" (NAD27)

Longitude: 80° 10' 00" (NAD27)

SURFACE HOLE DEC. LAT: 39.658188  
 SURVEYED LAT: 39° 39' 29.5"



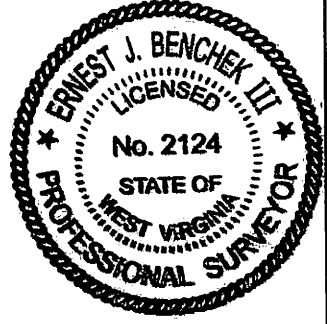
TOP HOLE (UTM NAD 83)	N) 4390139.4 E) 569084.9
BOTTOM HOLE (UTM NAD 83)	N) 4392425.7 E) 566658.2



**REFERENCE NOTES**  
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia MAY 2014  
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS  
 Drafted by: E.A.M.

FILE #: NNE15  
 DRAWING #: 2536  
 SCALE: PLAT: 1" = 1500'  
TDC: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/200  
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.  
 Signed: [Signature]  
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304

Well Type:  Oil  Waste Diposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: DUNKARD CREEK  
 COUNTY/DISTRICT: MONONGALIA / CLAY  
 SURFACE OWNER: NEHEMIAH KASSAY  
 OIL & GAS ROYALTY OWNER: NEHEMIAH & PATTY KASSAY  
 LEASE NUMBERS: \_\_\_\_\_

DATE: OCTOBER 9, 2015  
 OPERATOR'S WELL #: KASSAY NO. 7H  
 API WELL #: 47 61 01732 HOA  
 STATE COUNTY PERMIT \_\_\_\_\_

PROPOSED ELEVATION: 1,534'  
 CURRENT ELEVATION: 1,560'  
 QUADRANGLE: BLACKSVILLE  
 ACREAGE: 86.78 +/-  
 ACREAGE: 549.292 + 11/27/2015

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS  
 ESTIMATED DEPTH: TVD: 8,289' TMD: 19,519.58'  
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC  
 DESIGNATED AGENT: JOHN ADAMS  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

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

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

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**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further approvals should be acquired from the appropriate authority before the affected activity is initiated.

WV Department of  
Environmental Protection

Well Operator: Northeast Natural Energy LLC  
 By: Hollie M. Medley *Hollie Medley*  
 Its: Regulatory Coordinator

NNE Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Tax Map & Parcel
WV-061-003302-002	KASSAY, NEHEMIAH AND PATTY A.	Northeast Natural Energy LLC	.125 or greater	1506/143	17-48;10-17,18
WV-061-001109-000	SHUMAN, INC.	*Chesapeake Appalachia, LLC	.125 or greater	1439/243	17-48
WV-061-003378-001	STRICKLER, PAUL T. AND SHARON	Northeast Natural Energy LLC	.125 or greater	1530/128	17-49,46,45,50
WV-061-003378-003	BUTLER, MARY ROSE	Northeast Natural Energy LLC	.125 or greater	1530/132	17-49,46,45,50
WV-061-003378-004	STRICKLER, WILBUR RANDOLPH AND DEBORAH	Northeast Natural Energy LLC	.125 or greater	1530/140	17-49,46,45,50
WV-061-003378-005	STRICKLER, DORSEY NEIL AND NANCY E.	Northeast Natural Energy LLC	.125 or greater	1530/136	17-49,46,45,50
WV-061-003222-001	JOHN, LOIS M. AND ERNEST	*Chesapeake Appalachia, LLC	.125 or greater	1449/448	17-49,39,45
WV-061-003222-002	STRICKLER, WILBUR R. AND DEBORAH	*Chesapeake Appalachia, LLC	.125 or greater	1450/547	17-49,39,45
WV-061-003222-003	STRICKLER, DORSEY N. AND NANCY	*Chesapeake Appalachia, LLC	.125 or greater	1450/543	17-49,39,45
WV-061-003222-004	HIXENBAUGH, SHIRREL R. AND SHARON	*Chesapeake Appalachia, LLC	.125 or greater	1451/19	17-49,39,45
WV-061-003222-005	HIXENBAUGH, EARL LEE	*Chesapeake Appalachia, LLC	.125 or greater	1451/15	17-49,39,45
WV-061-003222-006	HIXENBAUGH, GREGORY J. AND DOROTHY	*Chesapeake Appalachia, LLC	.125 or greater	1451/11	17-49,39,45
WV-061-003222-007	HIXENBAUGH, ALLEN C.	*Chesapeake Appalachia, LLC	.125 or greater	1451/7	17-49,39,45
WV-061-003222-008	PIDO, VIOLET RAE	*Chesapeake Appalachia, LLC	.125 or greater	1451/23	17-49,39,45
WV-061-003222-009	STRICKLER, PAUL T. AND SHARON	*Chesapeake Appalachia, LLC	.125 or greater	1453/588	17-49,39,45
WV-061-003222-010	BUTLER, MARY ROSE	*Chesapeake Appalachia, LLC	.125 or greater	1453/584	17-49,39,45
WV-061-003222-011	HALL, CAROLYN AND AMOS RICHARD	*Chesapeake Appalachia, LLC	.125 or greater	1454/775	17-49,39,45
WV-061-003222-012	HENDERSON, GEORGE AND LINDA	*Chesapeake Appalachia, LLC	.125 or greater	1454/686	17-49,39,45
WV-061-003222-013	THE CHARLES LEE THOMAS TRUST	*Chesapeake Appalachia, LLC	.125 or greater	1454/865	17-49,39,45
WV-061-003474-001	MOORE, LORETTA GAYLE	Northeast Natural Energy LLC	.125 or greater	1521/137	17-49
WV-061-003248-001	STRICKLER, DORSEY N. AND NANCY	*Chesapeake Appalachia, LLC	.125 or greater	1453/645	17-46
WV-061-003248-002	BUTLER, MARY ROSE	*Chesapeake Appalachia, LLC	.125 or greater	1453/641	17-46
WV-061-003248-003	STRICKLER, PAUL T. AND SHARON	*Chesapeake Appalachia, LLC	.125 or greater	1453/746	17-46
WV-061-003248-004	STRICKLER, WILBUR R. AND DEBORAH	*Chesapeake Appalachia, LLC	.125 or greater	1453/727	17-46
WV-061-003248-005	JOHN, LOIS M. AND ERNEST	*Chesapeake Appalachia, LLC	.125 or greater	1454/383	17-46
WV-061-003248-006	MOORE, LORETTA AND GAYLE	Northeast Natural Energy LLC	.125 or greater	1521/135	17-46
WV-061-003248-007	HIXENBAUGH, SHIRREL R. AND SHARON	Northeast Natural Energy LLC	.125 or greater	1521/698	17-46
WV-061-003248-008	HIXENBAUGH, EARL LEE	Northeast Natural Energy LLC	.125 or greater	1518/27	17-46
WV-061-003248-009	HIXENBAUGH, GREGORY J. AND DOROTHY	Northeast Natural Energy LLC	.125 or greater	1520/318	17-46
WV-061-003248-010	HIXENBAUGH, ALLEN C. AND BETH A.	Northeast Natural Energy LLC	.125 or greater	1518/15	17-46
WV-061-002534-001	SHUMAN, INC.	*Chesapeake Appalachia, LLC	.125 or greater	1429/366	17-38; 9-12,11,10; 10-16
WV-061-002583-001	JOHN, LOIS MARIE	*Chesapeake Appalachia, LLC	.125 or greater	1431/264	17-38
WV-061-002583-002	HIXENBAUGH, EARL LEE	*Chesapeake Appalachia, LLC	.125 or greater	1433/561	17-38
WV-061-002583-003	HIXENBAUGH, GREGORY J. AND DOROTHY	*Chesapeake Appalachia, LLC	.125 or greater	1433/561	17-38
WV-061-002583-004	HIXENBAUGH, ALLEN C.	*Chesapeake Appalachia, LLC	.125 or greater	1431/797	17-38
WV-061-002583-005	HALL, CAROLYN AND AMOS RICHARD	*Chesapeake Appalachia, LLC	.125 or greater	1436/427	17-38
WV-061-002583-006	HENDERSON, GEORGE R. AND LINDA	*Chesapeake Appalachia, LLC	.125 or greater	1436/450	17-38
WV-061-002583-007	STRICKLER, WILBUR R. AND DEBORAH	*Chesapeake Appalachia, LLC	.125 or greater	1437/361	17-38
WV-061-002583-008	STRICKLER, DORSEY N. AND NANCY	*Chesapeake Appalachia, LLC	.125 or greater	1437/361	17-38
WV-061-002583-009	STRICKLER, PAUL T. AND SHARON	*Chesapeake Appalachia, LLC	.125 or greater	1454/353	17-38
WV-061-002583-010	BUTLER, MARY ROSE	*Chesapeake Appalachia, LLC	.125 or greater	1454/714	17-38
WV-061-002583-011	HIXENBAUGH, SHIRREL R. AND SHARON	*Chesapeake Appalachia, LLC	.125 or greater	1438/607	17-38
WV-061-002583-012	WELCH, MARY MAXINE	*Chesapeake Appalachia, LLC	.125 or greater	1444/272	17-38

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NNE Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Tax Map & Parcel
WV-061-002583-013	PIDO, VIOLET RAE	*Chesapeake Appalachia, LLC	.125 or greater	1449/422	17-38
WV-061-003278-001	CHESAPEAKE APPALACHIA LLC	*Chesapeake Appalachia, LLC	.125 or greater	1424/744	17-38
WV-061-001539-001	UPHOLD, CHARLES H. & MARY L.	*Chesapeake Appalachia, LLC	.125 or greater	1491/254	10-26.10
WV-061-003420-000	THE DAYBROOK CEMETERY ASSOCIATION	Northeast Natural Energy LLC	.125 or greater	1506/565	10-26.15
WV-061-003427-001	TENNANT, TERESA LEIGH	Northeast Natural Energy LLC	.125 or greater	1511/618	10-23
WV-061-001446-002	SHRIVER, RONALD M. AND SHERRY L.	Northeast Natural Energy LLC	.125 or greater	1533/215	10-22
WV-061-002574-001	ASHLEY, JOHN	*Chesapeake Appalachia, LLC	.125 or greater	1427/690	9-12,11; 10-16
WV-061-002574-002	SELDERS, EVERETT A. AND DIANNA	*Chesapeake Appalachia, LLC	.125 or greater	1427/695	9-12,11; 10-16
WV-061-002574-003	DAWSON, MARY ANN	*Chesapeake Appalachia, LLC	.125 or greater	1435/175	9-12,11; 10-16
WV-061-002621-001	REVOCABLE TRUST OF ROBERT M. SPRAGG	*Chesapeake Appalachia, LLC	.125 or greater	1441/411	9-12,11; 10-16; 17-50
WV-061-003309-001	CHESAPEAKE APPALACHIA LLC	*Chesapeake Appalachia, LLC	.125 or greater	1487/228	9-12,11; 10-16
WV-061-000256-001	PALMER, BARBARA P.	*Chesapeake Appalachia, LLC	.125 or greater	1428/518	9-10
WV-061-003271-001	CHESAPEAKE APPALACHIA LLC	*Chesapeake Appalachia, LLC	.125 or greater	1487/244	10-17,18
WV-061-002871-001	WILSON, BENNIE	*Chesapeake Appalachia, LLC	.125 or greater	1449/440	10-18
WV-061-003687-001	MOORE, LORETTA GAYLE	Northeast Natural Energy LLC	.125 or greater	1531/498	10-24
WV-061-003454-000	UPHOLD, CHARLES H.	Northeast Natural Energy LLC	.125 or greater	1513/308	17-94.2
WV-061-003493-001	MOORE, LORETTA GAYLE	Northeast Natural Energy LLC	.125 or greater	1530/166	17-39
WV-061-002642-001	LEMLEY, LUANNE AND ROBERT E.	*Chesapeake Appalachia, LLC	.125 or greater	1445/489	17-50
WV-061-002642-002	MATHENY, REBECCA SUE	*Chesapeake Appalachia, LLC	.125 or greater	1445/182	17-50
WV-061-002642-003	TENNANT, BILLIE JEAN	*Chesapeake Appalachia, LLC	.125 or greater	1445/178	17-50
WV-061-002673-001	STRICKLER, WILBUR RANDOLPH AND DEBORAH	*Chesapeake Appalachia, LLC	.125 or greater	1530/140	17-50
WV-061-002673-002	JOHN, LOIS MARIE AND ERNEST	*Chesapeake Appalachia, LLC	.125 or greater	1454/793	17-50
WV-061-002673-003	HENDERSON, GEORGE AND LINDA	*Chesapeake Appalachia, LLC	.125 or greater	1454/698	17-50
WV-061-002673-004	THE CHALRES LEE THOMAS	*Chesapeake Appalachia, LLC	.125 or greater	1454/861	17-50
WV-061-002673-005	MASON, LUE	*Chesapeake Appalachia, LLC	.125 or greater	1447/503	17-50
WV-061-002673-006	PIDO, VIOLET RAE	*Chesapeake Appalachia, LLC	.125 or greater	1450/790	17-50
WV-061-002673-007	HIXENBAUGH, GREGORY J. AND DOROTHY	*Chesapeake Appalachia, LLC	.125 or greater	1449/146	17-50
WV-061-002673-008	HIXENBAUGH, SHIRREL R. AND SHARON	*Chesapeake Appalachia, LLC	.125 or greater	1451/34	17-50
WV-061-002673-009	HIXENBAUGH, EARL LEE	*Chesapeake Appalachia, LLC	.125 or greater	1449/375	17-50
WV-061-002673-010	HIXENBAUGH, ALLEN C.	*Chesapeake Appalachia, LLC	.125 or greater	1450/787	17-50
WV-061-002673-011	HALL, CAROLYN AND AMOS RICHARD	*Chesapeake Appalachia, LLC	.125 or greater	1453/572	17-50
WV-061-002673-012	STRICKLER, DORSEY N. AND NANCY	*Chesapeake Appalachia, LLC	.125 or greater	1530/136	17-50
WV-061-002673-013	BUTLER, MARY ROSE	*Chesapeake Appalachia, LLC	.125 or greater	1530/132	17-50
WV-061-002673-014	STRICKLER, PAUL AND SHARON	*Chesapeake Appalachia, LLC	.125 or greater	1530/128	17-50
WV-061-002673-015	MOORE, LORETTA GAYLE	Northeast Natural Energy LLC	.125 or greater	1521/133	17-50
WV-061-003557-001	PENRY, ROBERT WAYNE	Northeast Natural Energy LLC	.125 or greater	1528/99	17-50
WV-061-003557-002	JENKINS, RUTH ELLEN AND CARLTON	Northeast Natural Energy LLC	.125 or greater	1528/64	17-50
WV-061-003557-003	HUSSEY, CARLA RAE AND NORBERT FAY	Northeast Natural Energy LLC	.125 or greater	1528/95	17-50
WV-061-003557-004	THOMAS, WILLIS AND GWENDOLYN	Northeast Natural Energy LLC	.125 or greater	1528/111	17-50
WV-061-003557-005	GOLDEN, CARMA JEAN	Northeast Natural Energy LLC	.125 or greater	1528/101	17-50
WV-061-003557-006	THOMAS, PAMELA SUE	Northeast Natural Energy LLC	.125 or greater	1528/84	17-50
WV-061-003557-007	LANE, CAROL P.	Northeast Natural Energy LLC	.125 or greater	1527/845	17-50
WV-061-003557-009	THOMAS, STANLEY DALE	Northeast Natural Energy LLC	.125 or greater	1534/73	17-50
WV-061-003357-001	WELLS, WILDA V.	Northeast Natural Energy LLC	.125 or greater	1516/576	17-51

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NNE Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Tax Map & Parcel
WV-061-003357-002	WELLS, ALDA KATE	Northeast Natural Energy LLC	.125 or greater	1516/0572	17-51
WV-061-003357-003	HALL, REITA	Northeast Natural Energy LLC	.125 or greater	1520/294	17-51
WV-061-003562-001	WILLIAMS, GREGORY D. AND KYLE L.	Northeast Natural Energy LLC	.125 or greater	1532/734	17-51
WV-061-002124-001	WELLS, HUBERT W. AND RITA J.	*Chesapeake Appalachia, LLC	.125 or greater	1505/595	17-51
WV-061-002124-002	MOORE, L. GAYLE	*Chesapeake Appalachia, LLC	.125 or greater	1506/423	17-51
WV-061-002124-003	WILLIAMS, ROXIE	*Chesapeake Appalachia, LLC	.125 or greater	1505/591	17-51
WV-061-002124-004	DILLE, FRANKLIN ERNEST AND NANCY LOU	*Chesapeake Appalachia, LLC	.125 or greater	1505/590	17-51
WV-061-002124-006	WILSON, CLIFF EVAN	*Chesapeake Appalachia, LLC	.125 or greater	1507/094	17-51
WV-061-002124-008	PRICE, JACK E. AND MARTHA LEE	*Chesapeake Appalachia, LLC	.125 or greater	1507/460	17-51
WV-061-002124-009	TENNANT, R., WAYNE	*Chesapeake Appalachia, LLC	.125 or greater	1510/160	17-51
WV-061-002354-001	WILSON, BENNIE	*Chesapeake Appalachia, LLC	.125 or greater	1516/0754	17-51
WV-061-002354-002	YOST, RUSSELL D.	*Chesapeake Appalachia, LLC	.125 or greater	1451/069	17-51
WV-061-002354-003	YOST, JACK L. AND JOYCE GAIL	*Chesapeake Appalachia, LLC	.125 or greater	1451/073	17-51
WV-061-002354-004	FILBEY, RONALD L.	*Chesapeake Appalachia, LLC	.125 or greater	1454/348	17-51
WV-061-002354-005	FILBEY, GARY R.	*Chesapeake Appalachia, LLC	.125 or greater	1454/448	17-51
WV-061-002354-006	FILBEY, ROBERT C.	*Chesapeake Appalachia, LLC	.125 or greater	1454/443	17-51
WV-061-002354-007	HOLLANDSWORTH, SHIRLEY MARLENE	*Chesapeake Appalachia, LLC	.125 or greater	1455/477	17-51
WV-061-002354-008	DAVIS, CHARLES BRADLEY AND DENISE ELIZABETH	*Chesapeake Appalachia, LLC	.125 or greater	1454/877	17-51
WV-061-002354-009	SAUNDERS, VIVIAN GENEVIEVE	*Chesapeake Appalachia, LLC	.125 or greater	1455/485	17-51
WV-061-002354-010	BUTLER, TANA D. AND ROBERT S.	*Chesapeake Appalachia, LLC	.125 or greater	1455/481	17-51
WV-061-002354-011	CUMMINS, CORREL W.	*Chesapeake Appalachia, LLC	.125 or greater	1455/771	17-51
WV-061-002354-012	DAVIS, BRIAN E. AND JULIE B.	*Chesapeake Appalachia, LLC	.125 or greater	1455/767	17-51
WV-061-002354-013	RUSH, LARRY L. AND LANA D.	*Chesapeake Appalachia, LLC	.125 or greater	1457/627	17-51
WV-061-002150-001	DILLE, FRANKLIN EARNEST AND NANCY LOU	*Chesapeake Appalachia, LLC	.125 or greater	1505/541	17-51
WV-061-001423-001	COLLINS, CATHY ANN	*Chesapeake Appalachia, LLC	.125 or greater	1488/400	17-59
WV-061-001423-002	JONES, LULA HAZE TENNANT	*Chesapeake Appalachia, LLC	.125 or greater	1488/414	17-59
WV-061-001423-004	GLOVER, BETTY	*Chesapeake Appalachia, LLC	.125 or greater	1488/402	17-59
WV-061-001423-005	TENNANT, SHIRLEY A.	*Chesapeake Appalachia, LLC	.125 or greater	1488/401	17-59
WV-061-001423-006	MAYLE, PATRICIA ELLEN TENNANT	*Chesapeake Appalachia, LLC	.125 or greater	1488/404	17-59
WV-061-001423-007	TENNANT, JACOB W. AND ELIZABETH B.	Northeast Natural Energy LLC	.125 or greater	1524/196	17-59
WV-061-003308-001	CHESAPEAKE APPALACHIA LLC	*Chesapeake Appalachia, LLC	.125 or greater	1488/801	17-59

\*See Attachment

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11/27/2015

Chesapeake Appalachia, LLC.



Northeast Natural Energy  
Assignment  
BK 120/769

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11/27/2015



October 5, 2015

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

RE: Kassay 1H, 3H, & 7H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the road identified as Daybrook Road (State Route 218) on the enclosed survey plat.

Sincerely,

  
Jeannie Morgan Johnson, CPL  
Vice President – Land Operations

Enclosure

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WV Department of  
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**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE CERTIFICATION**

Date of Notice Certification: 10/22/2015

API No. 47- \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Kassay 7H  
Well Pad Name: Kassay

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>569084.9</u>
County: <u>Monongalia</u>	Northing: <u>4390193.4</u>
District: <u>Clay</u>	Public Road Access: <u>County Route 25/3 (Yank Hollow Road)</u>
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>Kassay</u>
Watershed: <u>Dunkard Creek</u>	

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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**Required Attachments:**

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

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**Environmental Protection**

**Certification of Notice is hereby given:**

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

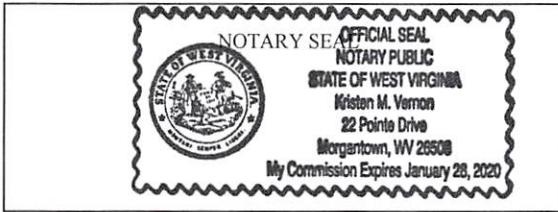
Well Operator:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia Street East, Suite 1200</u>
By:	<u>Hollie M. Medley</u>		<u>Charleston, WV 25301</u>
Its:	<u>Regulatory Coordinator</u>	Facsimile:	<u>304-241-5972</u>
Telephone:	<u>304-241-5752, ext. 7108</u>	Email:	<u>hmedley@nne-llc.com</u>

*Hollie M Medley*

Subscribed and sworn before me this 20<sup>th</sup> day of October 2015.

*Kristen M. Vernon* Notary Public

My Commission Expires January 28, 2020



**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](mailto:depprivacyofficer@wv.gov).

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OCT 23 2015

WV Department of  
Environmental Protection

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

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 10/9/2015 **Date Permit Application Filed:** 10/23/2015

**Notice of:**

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)  
Name: See Attachment  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: See Attachment  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: See Attachment  
Address: \_\_\_\_\_

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attachment  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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\*Please attach additional forms if necessary  
**WV Department of 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-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 by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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

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

**WV Department of  
Environmental Protection**

11/27/2015



**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 <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> 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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WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. Kassay 7H  
Well Pad Name: Kassay

**Notice is hereby given by:**

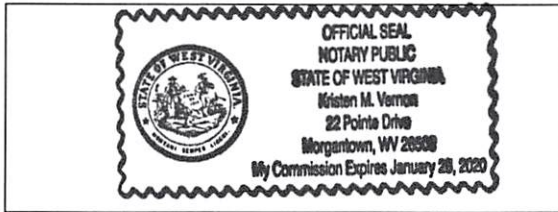
Well Operator: Northeast Natural Energy LLC  
Telephone: 304-241-5752, ext. 7108  
Email: hmedley@nne-llc.com

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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

*Helen M. Medley*



Subscribed and sworn before me this 22nd day of October 2015.

*Kristen M. Vernon* Notary Public

My Commission Expires January 28, 2020

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**Surface Owner(s):**

Nehemiah and Patty Kassay  
1991 Daybrook Road  
Fairview, WV 26570

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

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

**Surface Owner(s) – Road and/or Other Disturbance:**

Nehemiah and Patty Kassay  
1991 Daybrook Road  
Fairview, WV 26570

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

**Surface Owner of Water Well and/or Water Purveyor(s):**

Nehemiah and 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 Marie Martin  
477 Country Road  
Fairview, WV 26570

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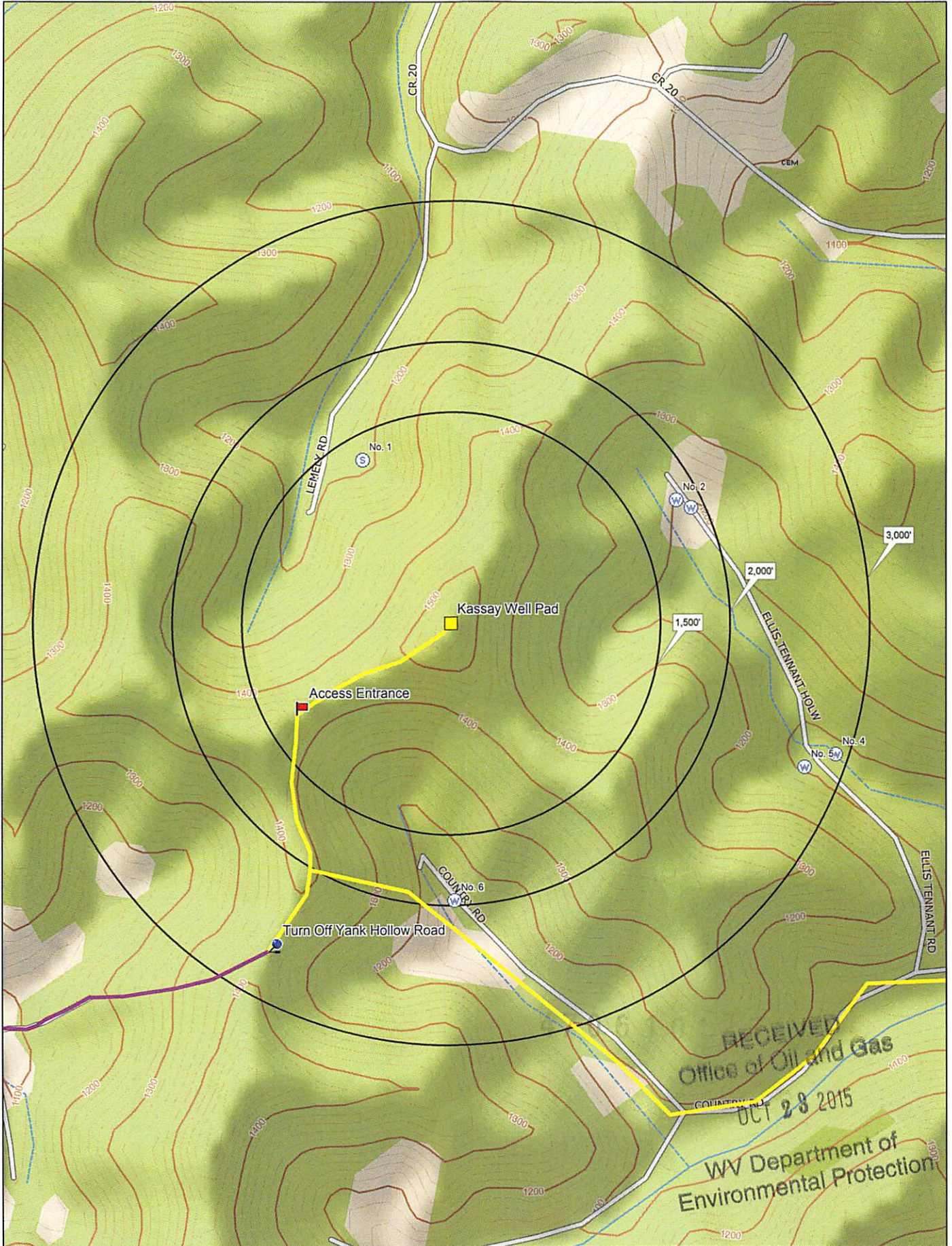
11/27/2015

**Coal Owner or Lessee:**

Consolidated Coal Company  
Attn: Analyst  
CNX Center  
1000 Consol Energy Drive  
Canonsburg, PA 15317



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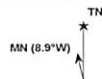


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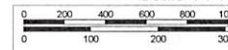
Data use subject to license.

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www.delorme.com



Scale 1 : 11,200



1" = 933.3 ft

11/27/2015

Data Zoom 14-2

## Kassay Water Well Location

	Surface Owner/Water Purveyor	Supply Type	Tax Map and Parcel	Latitude/Longitude
1	Nehemiah 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. Martin	Well	Tax Map 17, Parcel 59.1	39.652950, -80.194444

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

**Notice Time Requirement:** Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

**Date of Notice:** 12/18/2013      **Date of Planned Entry:** 12/26/2013

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

- PERSONAL SERVICE     
 REGISTERED MAIL     
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(s)  
Name: See Attachment  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

COAL OWNER OR LESSEE  
Name: See Attachment  
Address: \_\_\_\_\_  
\_\_\_\_\_

MINERAL OWNER(s)  
Name: See Attachment  
Address: 4706101732  
\_\_\_\_\_

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>569112.37, 4390193.76 (UTM NAD 83)</u>
County: <u>Monongalia</u>	Public Road Access: <u>State Rt. 20 (Memorial Road)</u>
District: <u>Clay</u>	Watershed: <u>Dunkard</u>
Quadrangle: <u>Blacksville, WV</u>	Generally used farm name: <u>Kassay</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Northeast Natural Energy LLC  
Telephone: 304.241.5752  
Email: hmedley@nne-llc.com

Address: 707 Virginia Street East, 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](mailto:depprivacyofficer@wv.gov).

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**11/27/2015**

## Kassay - Entry for Plat Survey

TMP	Surface Owner	Address
17-48	Nehemiah Kassay Patty Kassay	1991 Daybrook Road, Fairview, WV 26570
17-62	Precision Oil and Gas Inc.	P.O. Box 884, Bridgeport, WV 26330

TMP	Surface Owner - Access Road	Address
17-48	Nehemiah Kassay Patty Kassay	1991 Daybrook Road, Fairview, WV 26570

TMP	Mineral Owner	Address
17-62	Alice Wise, A Widow	8615 Tiber Hollow Court Louisville, KY 40219
17-62	Alma M. Joseph, A Widower	510 Brewer Street Akron, OH 44305
17-62	Almeada J. Barber, A Widow	22 Kurtz Street Apt 206 Athens, OH 45701
17-62	Ardella J. Clevenger	3 Karen Court Fairmont, WV 26554
17-62	Betty C. Lyons	316 North Main Street Bishop, CA 93514
17-62	Betty Lee Sine, Widow	Rt 1 Box 450 Riversville WV 26588
17-62	Billy Ray Tennant	658 Mooresville Road Core, WV 26541
17-62	C.W. Sine, A Single Man	4014 Trent Avenue Cleveland, OH 44109
17-62	Carol I Wise, Married	159 Pine Drive Poca, WV 26559
17-62	Celeste M Frickleton	11724 Dry River Ct. Reston, VA 20191
17-62	Cheryl Lisabeth Gallagher	2094 Croosroads Road Fairview, WV 26570
17-62	Connie Varner, A Single Woman	16005 Fleming Road Amesville, OH 45711
17-62	Darlene Eddy, A/K/A Darlene S.	910 Harlem Fairmont, WV 26554
17-62	Deborah Sudduth And Samuel	8480 Rural Dale Road Blue Rock, OH 43760
17-62	Dennis Keith Williams	Rt 1 Box 174 Fairmont, WV 26554
17-62	Diana Beth Thomas, A/K/A Diane	404 Brown Run Rd. Burton, WV 26590
17-62	Diane Beth Thomas And Curtis	404 Brown Run Rd. Burton, WV 26590
17-62	Donald R Sine, Married	5097 W. 148th Street Brook Park, OH 44142
17-62	Donald R. Sine And Irma Sine,	5097 W. 148th Street Brook Park, OH 44142
17-62	Donald Rex Williams	153 South Heritage Drive Jenkins, KY 41537
17-62	Donna Lynn Chase, Married	2833 West Roy E. Furman Highway Rogersville, PA 15359
17-62	Doris L Sine, Widow	4430 Fairmont Road Morgantown, WV 26501
17-62	Ellen J Woodruff, Widow	7529 Praire Road, NE, Albuquerque, NM 87109-1801
17-62	Emza M. Parsons, A Widow	607 Bryan Avenue Barrackville, WV 26559
17-62	Everett A Sine, Jr, Married	101 Mount Harmon Road Fairview, WV 26570
17-62	Freddy W Williams, Married	222 Happy Lane Fairview, WV 26570
17-62	Gail Church, Married	127 Dewey Ave. Spraggs, PA 15362
17-62	Ginger K. Estle	46 Breezy Drive Morgantown, WV 26501
17-62	Helen Cummings, A Widow	P.O. Box 277 Grantsville, WV 26570
17-62	James Everett Williams II	21200 State Rt. 676 Madetta, OH 45750
17-62	James Varner, A Single Man	16170 Fleming Road Amesville, OH 45701
17-62	Janet Varner, A Widow	16005 Fleming Road Amesville, OH 45711
17-62	Jarrold Williams	P.O. Box 311 Pentress, WV 26554

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17-62	Jimmy Randall Tennant	15 Clint Moore Road Fairview, WV 26570
17-62	Jody L. Varner, A Single Man	P.O. Box 102 181 Water Street Duncan Falls, OH 43734
17-62	Joyce Ann Berga, A/K/A Joyce	619 Ruby Street Belmont, WV 26134
17-62	Karen J. Taylor, F/K/A Karen	50711 State Rt 7 New Matamoras, OH 45767
17-62	Karen M. Cain, A/K/A Karen	645 Hillwood Drive Morgantown, WV 26508
17-62	Kimberly Sue Brummage	2596 Daybrook Road Fairview, WV 26570
17-62	Kristie Virgie Vedis	631 Daybrook Road Fairview, WV 26579
17-62	Larry K Sine, Married	1101 Buffalo Road Mannington, WV 26582
17-62	Larry Tennant, A Married Man	1110 Plum Road Mannington, WV 26582
17-62	Leonard D Moore, Married	10754 Mason Dixlon HWY Burton, WV 26562
17-62	Leonard L Tennant, Married	206 Putney Road Cumberland, V A 23040
17-62	Lisa And William Mccammon	6549 South Blackburn Road Athens, OH 45701
17-62	Loretta Fluharty	Rt 3 Box 155A Mannington, WV
17-62	Louise Varner, A Widow	99 Bean Road Lot 4 The Plains, OH 45780
17-62	Lyll A Sine, Aka Lyal A Sine	355 Statler Run Road Fairview, WV 26570
17-62	Lydia L. Troutman	46 Breezy Drive Morgantown, WV 26501
17-62	Mabel L. Mcafee, Married	5208 Secretariat Run Spring Hill, FL 34609
17-62	Mabel L. Mcafee, A Widow	5208 Secretariat Run Spring Hill, FL 34609
17-62	Mark Varner, A Single Man	480 High Street Nelsonville, OH 45764
17-62	Mary J. Pemberton, A/K/A Mary	149 Honeysuckle Lane Huntington, WV 25701
17-62	Mary Liming, A Married Woman	4341 Mason Dixon Highway Core, WV
17-62	Mary R. Mccullough, A Widow	1646 Morris Stret Washington, PA 15301
17-62	Michelle Dawn Johnson And Eric	3306 Mason Dixon HWY Core, WV 26541
17-62	Myrtle L. Sine	8044 Smokey Drain Road Core, WV 26529
17-48	Nehemiah Kassay and Patty A. Kassay	1991 Daybrook Road, Fairview, WV 26570
17-62	Nehemiah Kassay And Patty A. Kassay	1991 Daybrook Road, Fairview, WV 26570
17-62	Nola M Williams, Widow	61 Vermillion Drive Pentress, WV 26544
17-62	Pamela Brown And Carl Brown	1327 Irish Road Philo, OH 43771
17-62	Pamela J. Yurisko	RR 3 Box 197B Shinnston, WV26431
17-62	Pamela Rena Hall, Married	290 Oak Street Waynesburg, PA 15370
17-62	Patricia Ann Hostutler, Single	1460 Jakes Run Road Fairview, WV 26570
17-62	Patricia Van Tassell, Married	7024 Pam Drive Millington, TN 38053
17-62	Paul Varner, A Single Man	472 Scott Street Nelsonville, OH 45764
17-62	Peggy A Morris, Married	37534 Landis Ave. Zephyrhills, FL 33541
17-62	Raymer Tennant	154 Behler Road Fairview, WV 26570
17-62	Rebecca Gail Foley	1175 Range Road Wadestown, WV 26590
17-62	Rebecca Lynne Strahler	307 Marion Street Marietta, OH 45750
17-62	Richard Tennant	Rt 2 Box 335 C Fayetteville, WV 25840
17-62	Rickey Jane Buchanan, A	4603 Red Tail Hawk Lane Waxhott, WV 26049
17-62	Robert Ora Wheeler And Paula	5210 Cass Street Oak Lawn, IL 60455
17-62	Robert Varner, A Single Man	16005 Fleming Road Arnesville, OH 45711
17-62	Rodney Wayne Tennant	1733 Jakes Run Road Fairview, WV 26570

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17-62	Roxana Cahill	609 South Pine Grove Road Virginia Beach, VA 23452
17-62	Ruby E. Van Fossen	1390 West Jackson Hill Court Laecanto, FL 34461
17-62	Sandra Faye Wilson And Wayne	7725 Mason Dixon Highway Wana, WV 26590
17-62	Steven Varner Sr. And Tina	21 Robbins Road Nelsonville, OH 45764
17-62	Sue Ann Strickland, Married	6412 Colleen Ave., NE Albuquerque, NM 87109
17-62	Susan L. Michael, A/K/A Susan	4256 Crossroads Road Fairview, WV 26570
17-62	Tamela R. Simeral And Jerry	2207 Armco Avenue Zanesville, OH 43701
17-62	Tina L. Fluharty And Richard	41 Finch Lane Mannington, WV 26582
17-62	Tommy J. Eddy, Sr., A/K/A	3027 Daybrook Road Fairview, WV 26570
17-62	Troy L. Tennant And Anna L.	Rt. 1 Box 169 B Fairmont, WV 26554
17-62	Twyla Hinds Snopps	Rt 2 Box 367 Lost Creek, WV 26385
17-62	Varner L Moore, Married	7368 Mason Dixon HWY Wana, WV 26590
17-62	W Richard Williams, Married	10809 US Highway 27 South Sebring, FL 33876
17-62	Walden J. Cook, Jr.	340 1171st Street Middleton, IL 62666

TMP	Coal Owner	Address
17-62, 48	Consolidated Coal Company	1000 Consol Energy Drive, Canonsburg, PA

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**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 Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 10/09/2015      **Date Permit Application Filed:** 10/23/2015

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

HAND DELIVERY       CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: See Attachment  
Address: \_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

4706101732

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>569084.9</u>
County:	<u>Monongalia</u>		Northing:	<u>4390139.4</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 25/3 (Yank Hollow Road)</u>	
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>Kassay</u>	
Watershed:	<u>Dunkard Creek</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Northeast Natural Energy LLC  
Address: 707 Virginia Street East, Suite 1200  
Charleston, WV 25301  
Telephone: 304-414-7060  
Email: hmedley@nne-llc.com  
Facsimile: 304-414-7061

Authorized Representative: Hollie Medley, Regulatory Coordinator  
Address: 48 Donley Street, Suite 601  
Morgantown, WV 26501  
Telephone: 304-241-5752  
Email: hmedley@nne.ll.com  
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](mailto:depprivacyofficer@wv.gov).

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10/27/2015

**Surface Owner(s):**

Nehemiah and Patty Kassay  
1991 Daybrook Road  
Fairview, WV 26570

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

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

6706101732

**Surface Owner(s) – Road and/or Other Disturbance:**

Nehemiah and Patty Kassay  
1991 Daybrook Road  
Fairview, WV 26570

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

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

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 10/09/2015      **Date Permit Application Filed:** 10/23/2015

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

- CERTIFIED MAIL                                       HAND  
RETURN RECEIPT REQUESTED                                      DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: See Attachment  
Address: \_\_\_\_\_  
\_\_\_\_\_

4706101752

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>569084.9</u>
County:	<u>Monongalia</u>		Northing:	<u>4390139.4</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 25/3 (Yank Hollow Road)</u>	
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>Kassay</u>	
Watershed:	<u>Dunkard Creek</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Northeast Natural Energy LLC  
Telephone: 304-414-7060  
Email: hmedley@nne-llc.com

Address: 707 Virginia Street East, Suite 1200  
Charleston, WV 25301  
Facsimile: 304-414-7061

**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](mailto:depprivacyofficer@wv.gov).

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**Surface Owner(s):**

Nehemiah and Patty Kassay  
1991 Daybrook Road  
Fairview, WV 26570

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

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

470610177

**Surface Owner(s) – Road and/or Other Disturbance:**

Nehemiah and Patty Kassay  
1991 Daybrook Road  
Fairview, WV 26570

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

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

**Instructions to Persons Named on Page WW-6A**

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

I, Nehemiah Kassay hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>569084.9</u>
County: <u>Monongalia</u>		Northing: <u>4390139.4</u>
District: <u>Clay</u>	Public Road Access: <u>County Route 25/3 (Yank Hollow Road)</u>	
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>Kassay</u>	
Watershed: <u>Dunkard Creek</u>		

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
- SURFACE OWNER
  - SURFACE OWNER (Road and/or Other Disturbance)
  - SURFACE OWNER (Impoundments/Pits)
  - COAL OWNER OR LESSEE
  - COAL OPERATOR
  - WATER PURVEYOR
  - OPERATOR OF ANY NATURAL GAS STORAGE FIELD

**FOR EXECUTION BY A NATURAL PERSON**

Signature: Nehemiah Kassay  
 Print Name: NEHEMIAH KASSAY  
 Date: 10-13-2015

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: \_\_\_\_\_  
 By: \_\_\_\_\_  
 Its: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_

**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](mailto:depprivacyofficer@wv.gov).

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

**Instructions to Persons Named on Page WW-6A**

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

I, Nancy Carpenter, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>569084.9</u>
County:	<u>Monongalia</u>	UTM NAD 83 Northing:	<u>4390139.4</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 25/3 (Yank Hollow Road)</u>
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>Kassay</u>
Watershed:	<u>Dunkard Creek</u>		

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

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

**FOR EXECUTION BY A NATURAL PERSON**

Signature: Nancy Carpenter  
Print Name: Nancy Carpenter  
Date: 10/15/15

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: \_\_\_\_\_  
By: \_\_\_\_\_  
Its: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

**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](mailto:depprivacyofficer@wv.gov).

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

**Instructions to Persons Named on Page WW-6A**

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

I, Bonnie L. Tennant, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>569084.9</u>
County:	<u>Monongalia</u>	UTM NAD 83 Northing:	<u>4390139.4</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 25/3 (Yank Hollow Road)</u>
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>Kassay</u>
Watershed:	<u>Dunkard Creek</u>		

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

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

**FOR EXECUTION BY A NATURAL PERSON**

Signature: \_\_\_\_\_  
Print Name: Bonnie L. Tennant  
Date: Oct 18 2015

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: \_\_\_\_\_  
By: \_\_\_\_\_  
Its: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

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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

Earl Ray Tomblin  
Governor

Paul A. Mattox, Jr., P. E.  
Secretary of Transportation/  
Commissioner of Highways

July 30, 2014

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

4706101732

Subject: DOH Permit for the Kassay Pad, Monongalia County  
Kassay 7H

Dear Dr. Martin,

This well site will be accessed from a permit #04-2014-0914 requested by 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,

Gary K. Clayton, P.E.  
Regional Maintenance Engineer  
Central Office O&G Coordinator

Cc: Dave McDougal  
Northeast Natural Energy Corporation  
CH, OM, D-4  
File

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Planned Additives to be used in Fracturing Stimulations

Trade Name	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)
Water	Carrier	Water	7732-18-5
HCl, 10.1-15%	Acidizing	Hydrochloric Acid Water	7647-01-0 7732-18-5
Alpha 1427	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Ethanol Glutaraldehyde Quaternary Ammonium Chloride Water	68424-85-1 64-17-5 111-30-8 7173-51-5 7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate Water	9025-56-3 7732-18-5
CI-14	Corrosion Inhibitor	Fatty Acids Methanol Olefin Polyoxyalkylenes Propargyl Alcohol	N.A. 67-56-1 N.A. N.A. 107-19-7
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
GW-3LDF	Gelling Agent	Guar Gum Petroleum Distillate Blend	9000-30-0 CBI
Ferrotrol 300L	Iron Control	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Crystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Crystalline Silica (Quartz)	14808-60-7
Scaletrol 726	Scale Inhibitor	Diethylene Glycol	111-46-6

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APPROVED  
WVDEP OOG  
12/29/2014

# EROSION & SEDIMENT CONTROL PLAN KASSAY WELL PAD

API#6101689  
API#6101694  
API#6101695

MONONGALIA COUNTY, WEST VIRGINIA

FOR

# NORTHEAST NATURAL ENERGY LLC

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



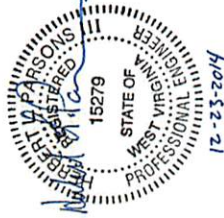
LOCATION MAP  
750' 0 1000' 2000'  
SCALE

PROJECT NO. 1338001  
DECEMBER 2014

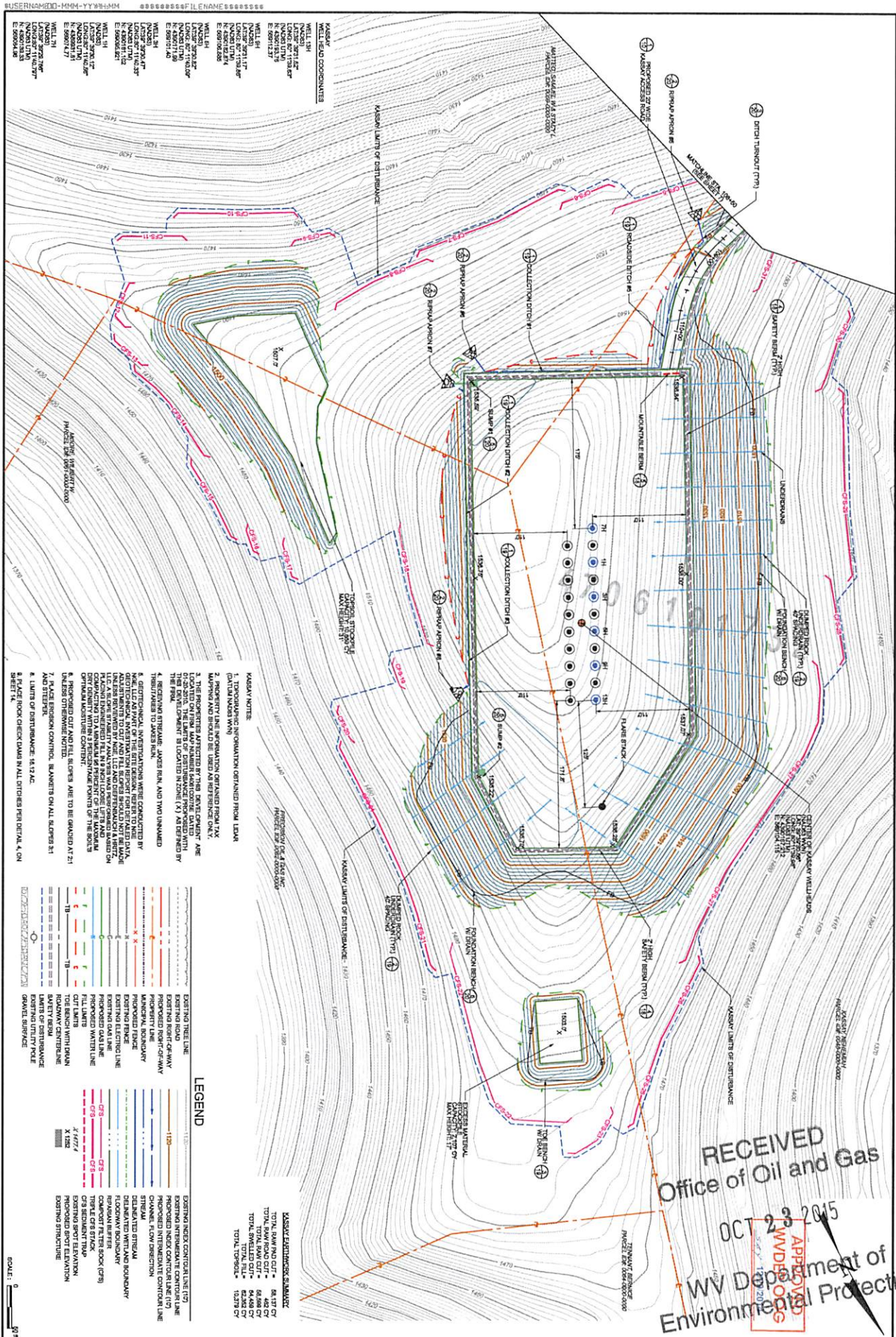
DIEFFENBAUCH & HRITZ, LLC

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DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	GENERAL SITE PLAN
4	PROPOSED SITE PLAN
5-10	ACCESS ROAD PROFILE
11	SOILS PLAN
12-15	SITE RESTORATION PLAN
16	REVEGETATION PLAN
17	TYPICAL SECTIONS
18-20	EROSION DETAILS



**WELL PAD COORDINATES**

WELL ID	WELL CENTER POINT	WELL DEPTH	WELL TYPE
WELL 1H	...	...	...
WELL 1M	...	...	...
WELL 1N	...	...	...
WELL 1O	...	...	...
WELL 1P	...	...	...
WELL 1Q	...	...	...
WELL 1R	...	...	...
WELL 1S	...	...	...
WELL 1T	...	...	...
WELL 1U	...	...	...
WELL 1V	...	...	...
WELL 1W	...	...	...
WELL 1X	...	...	...
WELL 1Y	...	...	...
WELL 1Z	...	...	...

**KASSAY NOTES:**

1. TOPOGRAPHIC INFORMATION OBTAINED FROM LIDAR (DATA FROM WVI)
2. PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPS AND SHOULD BE USED AS REFERENCED ONLY.
3. THE PROPERTIES ADJACENT TO THIS SITE OWNED BY OR TO BE ACQUIRED BY THE CLIENT ARE SHOWN WITH THE PROPERTY LINE INFORMATION OBTAINED FROM THE TAX MAPS AND SHOULD BE USED AS REFERENCED ONLY.
4. RECEIVING STREAM, JAYES RUN, AND TWO UNNAMED TRIBUTARIES TO JAYES RUN.
5. GEOTECHNICAL INVESTIGATIONS WERE CONDUCTED BY GEOTECHNICAL INVESTIGATION REPORT FOR THE SITE DATA. THE RESULTS OF THESE INVESTIGATIONS ARE SHOWN ON THE PLAN. THE RESULTS OF THESE INVESTIGATIONS ARE SHOWN ON THE PLAN. THE RESULTS OF THESE INVESTIGATIONS ARE SHOWN ON THE PLAN.
6. PROPOSED CUT AND FILL SLOPES ARE TO BE GRADED AT 2:1 UNLESS OTHERWISE NOTED.
7. ALL EROSION CONTROL, STABILIZATION AND SLOPE STABILIZATION MEASURES SHALL BE INSTALLED PER DETAIL A ON SHEET 11 OF THIS PROJECT.
8. ALL ROCK CHECK DAMS IN ALL DITCHES PER DETAIL A ON SHEET 11 OF THIS PROJECT.

**LEGEND**

Symbol/Line Style	Description
...	EXISTING INDEX CENTER LINE (C/L)
...	EXISTING RIGHT-OF-WAY
...	PROPOSED RIGHT-OF-WAY
...	PROPOSED BOUNDARY
...	PROPOSED FENCE
...	EXISTING ELEC. LINE
...	PROPOSED ELEC. LINE
...	PROPOSED GAS LINE
...	PROPOSED WATER LINE
...	FILL LIMITS
...	CUT LIMITS
...	PROPOSED W/TH H/TH
...	ROADWAY CENTERLINE
...	SAFETY BERM
...	LIMITS OF DISTURBANCE
...	GRAVEL SURFACE

**KASSAY EXISTENCE SUMMARY**

Item	Quantity
TOTAL DRAIN FOOT	8,137 CF
TOTAL ROAD CUT	6,836 CF
TOTAL FILL	6,448 CF
TOTAL SWELLED CUT	6,448 CF
TOTAL FILL	6,448 CF
TOTAL SWELLED FILL	6,448 CF
TOTAL DISTURBANCE	16,985 CF

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## Northeast Natural Energy LLC Mine Contingency Plan



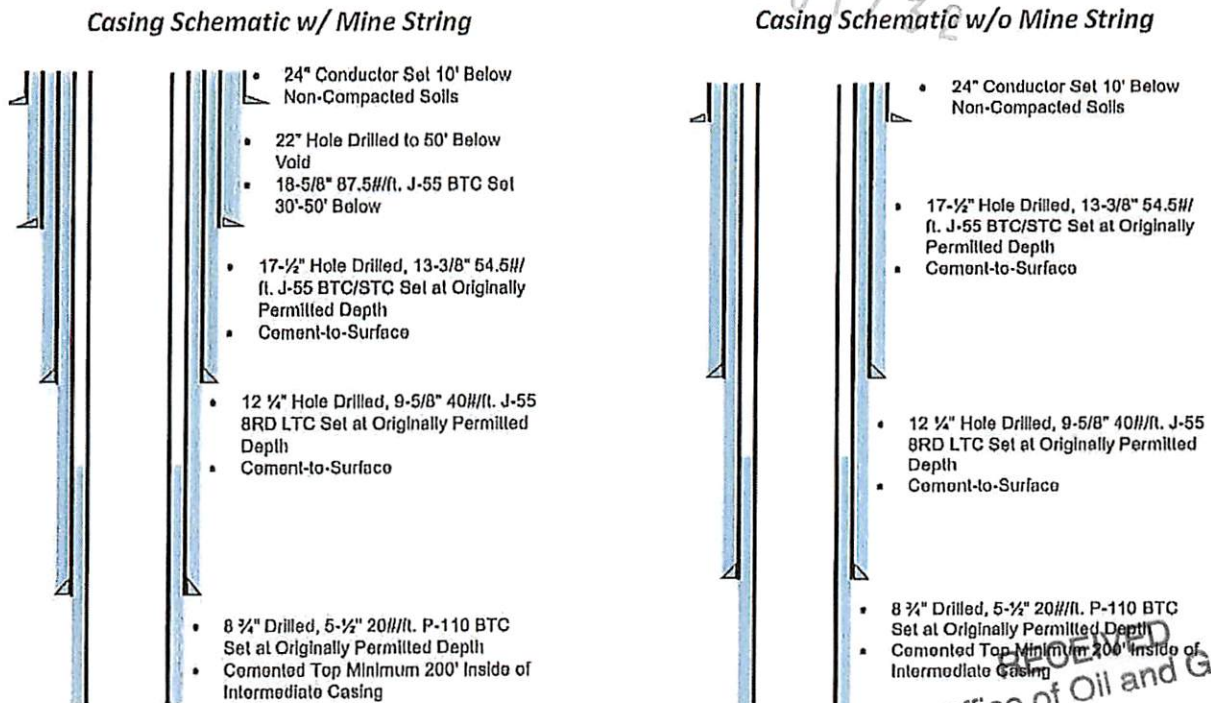
On all wells drilled, Northeast Natural Energy LLC ("NNE") has contingency strategies in place should an unanticipated void or mine be encountered while drilling the surface section of the well. If encountered, any accumulated gases will be diverted a safe distance away from the drilling operations through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



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