



west virginia department of environmental protection

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

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

December 08, 2015

WELL WORK PERMIT

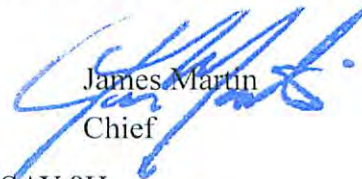
Horizontal 6A Well

This permit, API Well Number: 47-6101740, 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 8H
Farm Name: KASSAY, NEHEMIAH
API Well Number: 47-6101740
Permit Type: Horizontal 6A Well
Date Issued: 12/08/2015

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

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.

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

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

2) Operator's Well Number: Kassay 8H 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 *MJC 10/20/2015*

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: 16,437.22'

11) Proposed Horizontal Leg Length: 7,050'

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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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,330'	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	16,437'	16,407'	3,718 Cu. Ft.
Tubing	2-7/8"	New	N-80	6.5	NA	8,500'	NA
Liners							

MGK 10/20/2015

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	30"	.375	415		4,500 psi Grout	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 6561.39' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,289' TVD / 16,437.22' MD along a 143 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.

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

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

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.



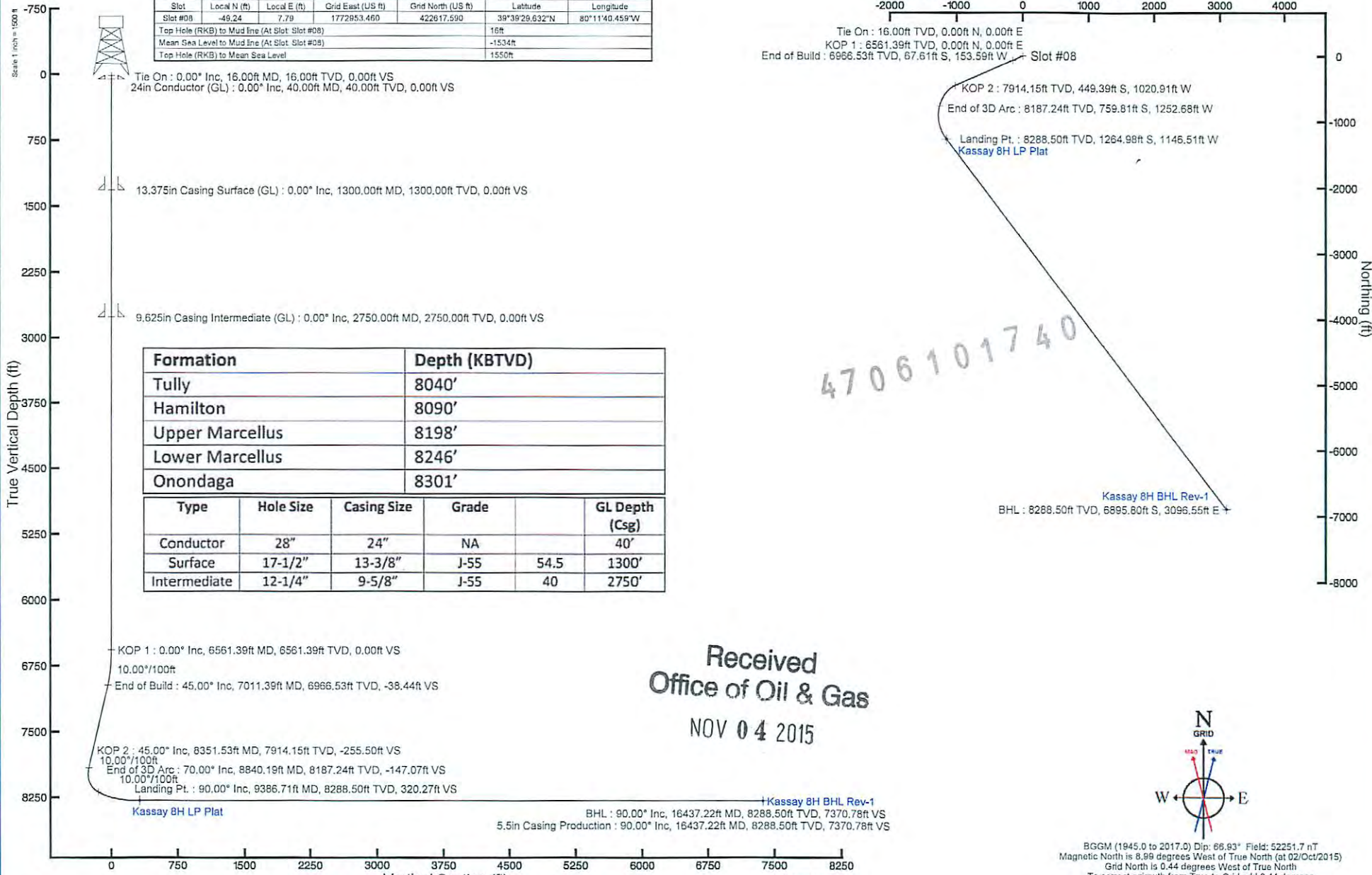
NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
 Field: Monongalia
 Facility: Kassay Pad

Slot: Slot #08
 Well: Kassay 8H
 Wellbore: Kassay 8H PWB



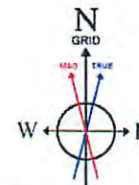
Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Kassay Pad	1772945.670	422666.830	39°30'30.118"N	80°11'40.564"W	
Slot	LocN N (ft)	Locd E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #08	-49.24	7.79	1772953.460	422617.590	39°39'29.632"N 80°11'40.459"W
Top Hole (RKB) to Mud line (At Slot Slot #08)			16ft		
Mean Sea Level to Mud line (At Slot Slot #08)			-1534ft		
Top Hole (RKB) to Mean Sea Level			1550ft		



Formation	Depth (KBTV D)
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

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BGGM (1945.0 to 2017.0) Dip: 66.93° 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

Vertical Section (ft)
 Azimuth 143.00° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500 ft

WW-9
(2/15)

API Number 47 - _____ - _____
Operator's Well No. Kassay 8H

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, 20 15

Kristen Notary Public

My commission expires January 28, 2020



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

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: *Haynes J. K. D.*

Comments: _____

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Title: Inspector

Date: 10/20/2015

Field Reviewed? () Yes () No

Attachment A to WW-9

Northeast Natural Energy LLC (“NNE”) plans to utilize a closed loop process for its drilling of the Kassay 8H well. Return flow from the well will be separated into its liquid and solid form. Liquids will be held in steel tanks and reused in the drilling and completion process or disposed of at an approved facility listed below. Solids removed from the stream will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated.

Kassay 8H 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 # 100247) 06101740
- Meadowfill Landfill (Waste Management) – Bridgeport, WV (Permit # SWF 103298)
- Max Environmental – Yukon, PA (PAD004835146 and 301071)
- Max Environmental – Bulger, PA (PAD059087072 and 301359)
- Chestnut Valley Landfill (Advanced Disposal) – Export, PA (Permit # 101421)

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

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

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12/11/2015



northeast
NATURAL ENERGY

Kassay 8H

4706101740

SITE SAFETY PLAN

October 19, 2015

Gayne J. Kohn
10/20/2015

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Office of Oil & Gas
NOV 04 2015

12/11/2015



northeast
NATURAL ENERGY

October 21, 2015

Mr. Mark C. Collins, M.S.
WV Department of Environmental Protection
601 57th Street SE
Charleston, WV 25304

4706101740

Re: WMP # 02111 Modification

Dear Mr. Collins,

Please find enclosed a modification request for the approved Water Management Plan identified as No. 2111. There are a few things that Northeast Natural Energy LLC would like to change from its existing Water Management plan for the Kassay Well Pad.

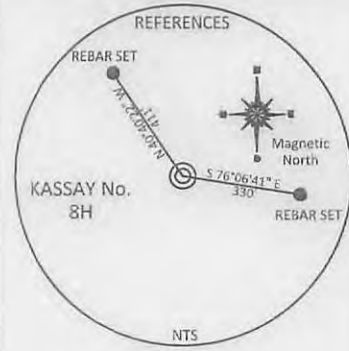
- 1 – Northeast requests that the Pentress Bridge gauge be added to the Snider – Dunkard Creek Withdraw.
- 2 – Northeast requests that the newest calculation for the Monongahela River be used.
- 3 – The total water needed has been updated for additional wells.
- 4 – The Construction Start Date has been revised to an actual start date.

Should you have any questions please contact the undersigned at 304.241.5752 Ext. 7108 or by email at hmedley@nne-llc.com.

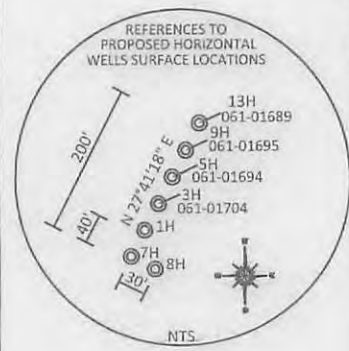
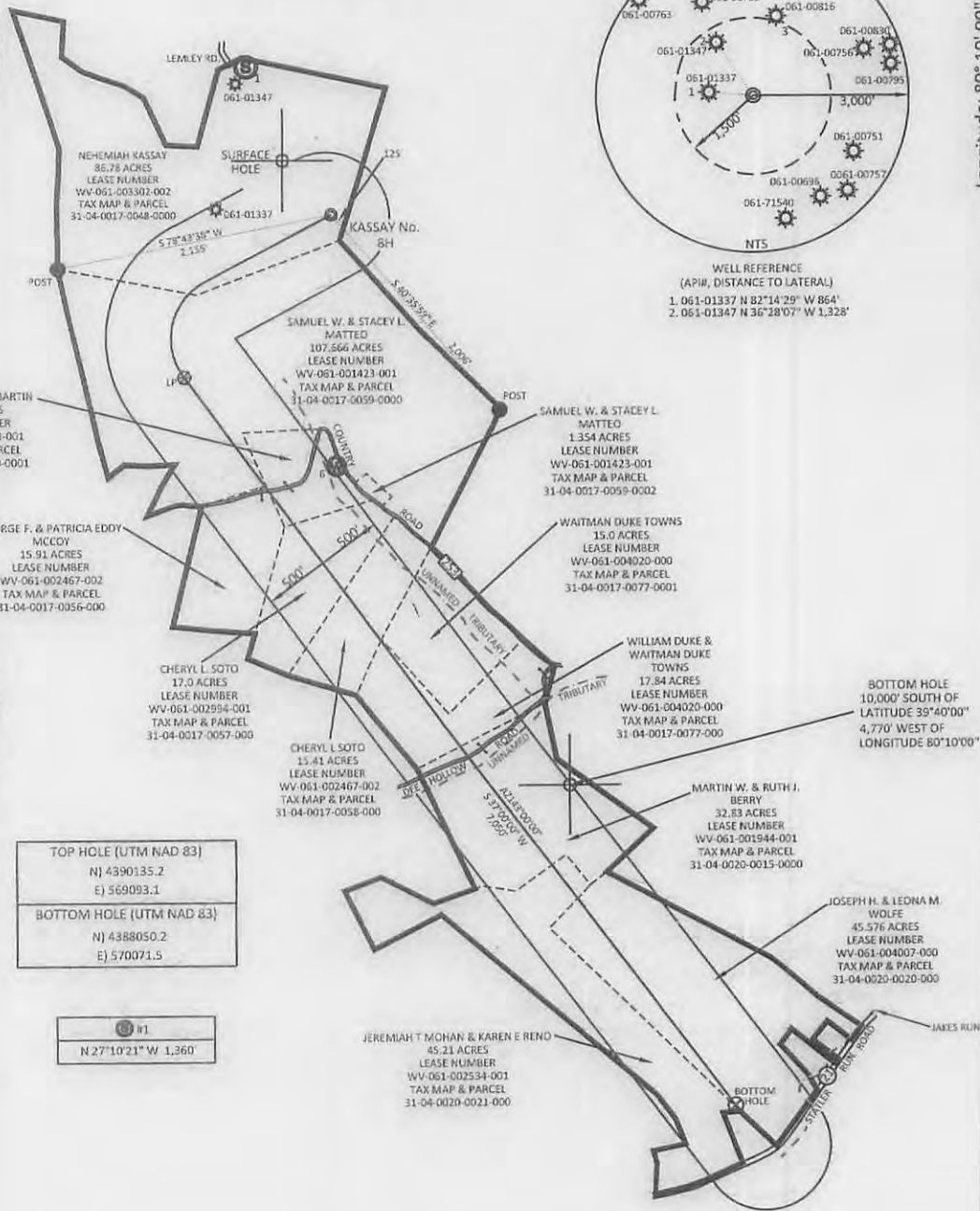
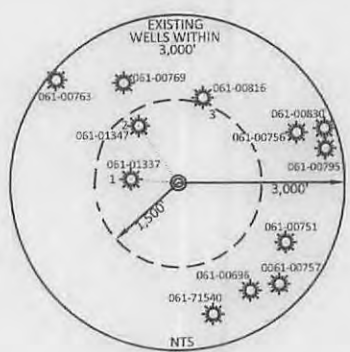
Sincerely,

Hollie M. Medley
Regulatory Coordinator

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Office of Oil & Gas
NOV 04 2015



NOTE:
NO WATER WELLS WERE FOUND WITHIN
250' OF THE CENTER OF WELL PAD.
NO DWELLINGS WERE FOUND WITHIN 625'
OF THE CENTER OF WELL PAD.



TOP HOLE (UTM NAD 83)
N) 4390135.2
E) 569093.1

BOTTOM HOLE (UTM NAD 83)
N) 4388050.2
E) 570071.5

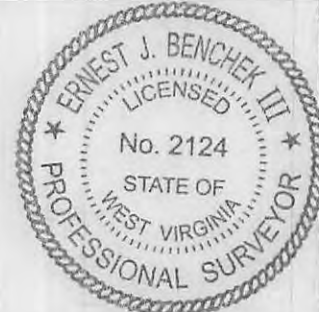
W 1
N 27°10'21" W 1,360'

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.H.

FILE #: NNE15
DRAWING #: 2606
SCALE: PLAT: 1" = 1400'
TICK: 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

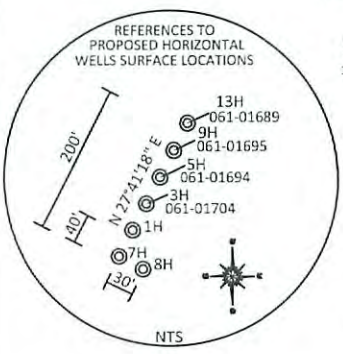
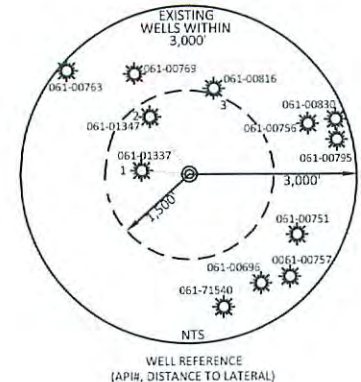
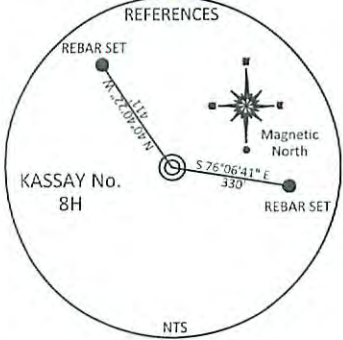
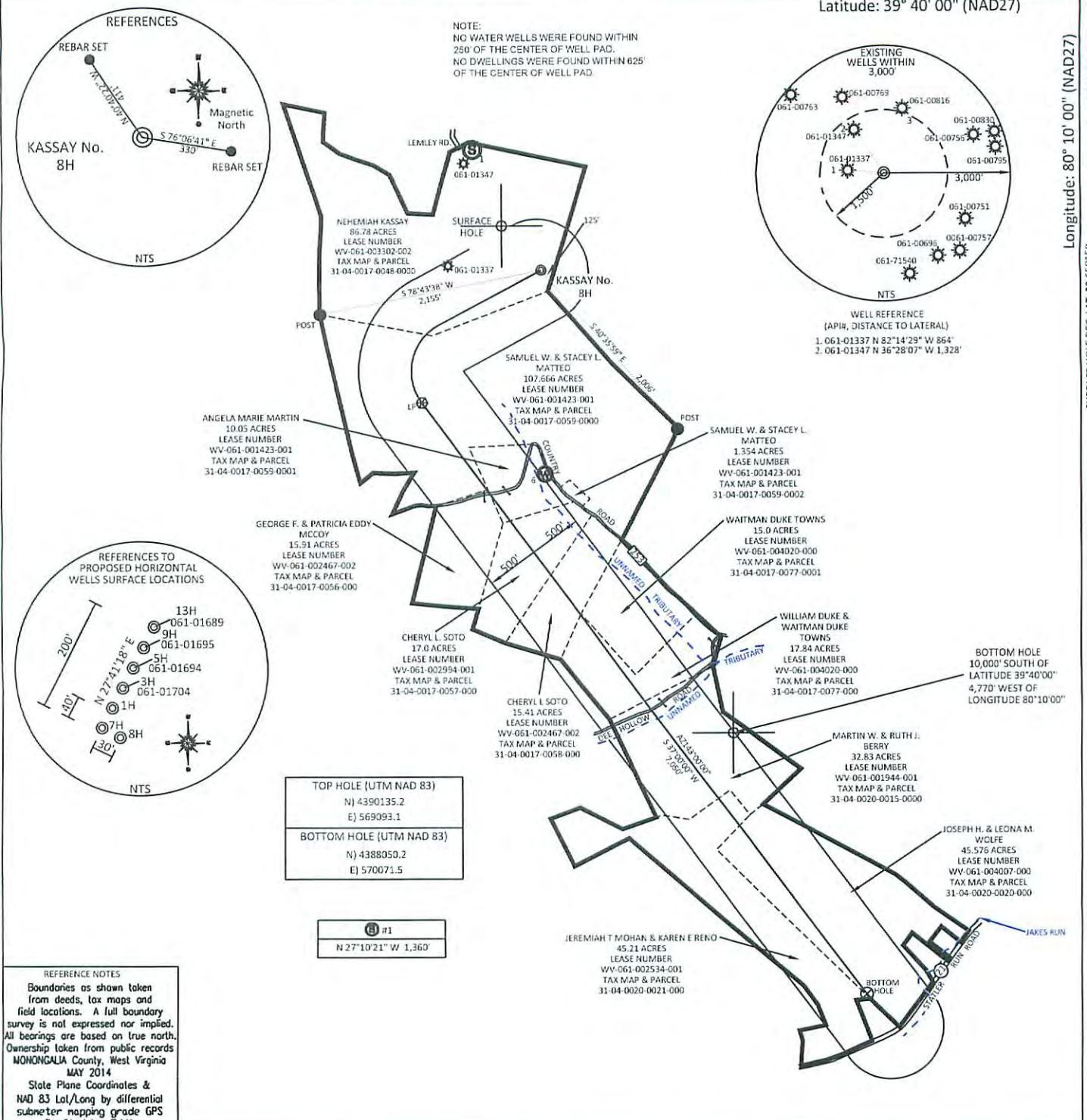


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304
Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow
WATERSHED: DUNKARD CREEK
COUNTY/DISTRICT: MONONGALIA / CLAY
SURFACE OWNER: NEHEMIAH KASSAY
OIL & GAS ROYALTY OWNER: NEHEMIAH & PATTY A. KASSAY
LEASE NUMBERS: _____

DATE: NOVEMBER 25, 2015
OPERATOR'S WELL #: KASSAY NO. 8H
API WELL #: 47 61 01740 146A
STATE COUNTY PERMIT
PROPOSED ELEVATION: 1,534'
CURRENT ELEVATION: 1,560'
QUADRANGLE: BLACKSVILLE
ACREAGE: 86.78 +/-
ACREAGE: 410.626 +/- **12/11/2015**

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
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
ESTIMATED DEPTH: TVD: 8,289' TMD: 16,437.22'
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301



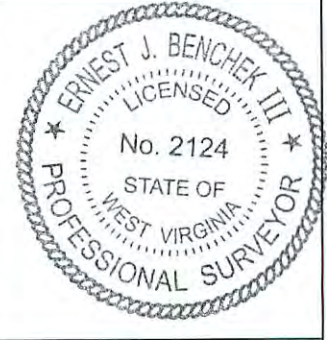
TOP HOLE (UTM NAD 83)
N) 4390135.2
E) 569093.1
BOTTOM HOLE (UTM NAD 83)
N) 4388050.2
E) 570071.5

⊕ #1
N 27°10'21\"/>

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.H.

FILE #: NNE15
DRAWING #: 2606
SCALE: PLAT: 1" = 1400'
TICK: 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 WYDEP
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 A. KASSAY
LEASE NUMBERS: _____
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
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
DATE: NOVEMBER 25, 2015
OPERATOR'S WELL #: KASSAY NO. 8H
API WELL #: 47 61
STATE COUNTY PERMIT
PROPOSED ELEVATION: 1,534'
CURRENT ELEVATION: 1,560'
QUADRANGLE: BLACKSVILLE
ACREAGE: 86.78 +/-
ACREAGE: 410.626 +/-
ESTIMATED DEPTH: TVD: 8,289' TMD: 16,437.22'
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

Office of Oil and Gas
WV Department of Environmental Protection
NOV 30 2015

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

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

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

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

4706101740

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

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

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

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

Well Operator: Northeast Natural Energy LLC
 By: Hollie 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
WV-061-001109-000	SHUMAN, INC.	*Chesapeake Appalachia, LLC	.125 or greater	1439/243	17-48
WV-061-001423-001	COLLINS, CATHY ANN	*Chesapeake Appalachia, LLC	.125 or greater	1377/172	17-59.1,59.2,59
WV-061-001423-002	JONES, LULA HAZE TENNANT	*Chesapeake Appalachia, LLC	.125 or greater	1377/226	17-59.1,59.2,59
WV-061-001423-004	GLOVER, BETTY ANN	*Chesapeake Appalachia, LLC	.125 or greater	1377/232	17-59.1,59.2,59
WV-061-001423-005	TENNANT, SHIRLEY	*Chesapeake Appalachia, LLC	.125 or greater	1377/229	17-59.1,59.2,59
WV-061-001423-006	MAYLE, PATRICIA ELLEN	*Chesapeake Appalachia, LLC	.125 or greater	1377/238	17-59.1,59.2,59
WV-061-001423-007	TENNANT, JACOB W. AND ELIZABETH B.	Northeast Natural Energy LLC	.125 or greater	1524/196	17-59.1,59.2,59
WV-061-003308-001	CHESAPEAKE APPALACHIA, LLC	*Chesapeake Appalachia, LLC	.125 or greater	1487/224	17-59.1,59.2,59
WV-061-002467-002	TENNANT, LINDSAY J.	*Chesapeake Appalachia, LLC	.125 or greater	1421/389	17-56,58
WV-061-003414-001	BRITVEC, STEVEN BURL	Northeast Natural Energy LLC	.125 or greater	1513/844	17-56
WV-061-003414-002	BROOKOVER, BARBARA KAY	Northeast Natural Energy LLC	.125 or greater	1513/842	17-56
WV-061-003414-003	BURKE, KRISTA	Northeast Natural Energy LLC	.125 or greater	1512/592	17-56
WV-061-003414-005	RALEY, MARY ANN	Northeast Natural Energy LLC	.125 or greater	1513/828	17-56
WV-061-002994-001	BRUMMAGE, RAY AND JANICE O.	*Chesapeake Appalachia, LLC	.125 or greater	1428/841	17-57
WV-061-002994-002	BONNELL, DIANE LYNN	*Chesapeake Appalachia, LLC	.125 or greater	1429/701	17-57
WV-061-002994-003	BRUMMAGE, JACK AND JANET	*Chesapeake Appalachia, LLC	.125 or greater	1429/335	17-57
WV-061-002994-004	WADE, GLADYS E. AND ALLEN E.	*Chesapeake Appalachia, LLC	.125 or greater	1428/852	17-57
WV-061-002994-005	BRUMMAGE, MICHAEL L.	*Chesapeake Appalachia, LLC	.125 or greater	1427/135	17-57
WV-061-002994-006	BARBER, BEN L., ET AL	*Chesapeake Appalachia, LLC	.125 or greater	1452/020	17-57
WV-061-002994-007	JOHNSON, PATRICIA	*Chesapeake Appalachia, LLC	.125 or greater	1435/188	17-57
WV-061-002994-008	WILSON, ROBERT E.	*Chesapeake Appalachia, LLC	.125 or greater	1442/164	17-57
WV-061-002994-009	WILSON, HOWARD E.	*Chesapeake Appalachia, LLC	.125 or greater	1450/395	17-57
WV-061-002994-010	WILSON, DAVID A.	*Chesapeake Appalachia, LLC	.125 or greater	1457/773	17-57
WV-061-002994-011	WILSON, STARLETT L.	*Chesapeake Appalachia, LLC	.125 or greater	1456/694	17-57
WV-061-002994-012	BOLNER, SANDRA L. AND CHARLES E.	*Chesapeake Appalachia, LLC	.125 or greater	1456/694	17-57
WV-061-002478-001	HAMILTON, FRANCES H., ET AL	*Chesapeake Appalachia, LLC	.125 or greater	1429/307	17-58
WV-061-002534-001	SHUMAN, INC.	*Chesapeake Appalachia, LLC	.125 or greater	1429/366	20-21
WV-061-001952-001	BASHAW, LINDA KAY	*Chesapeake Appalachia, LLC	.125 or greater	1502/044	20-21
WV-061-001952-002	HELDRETH, BARBARA J.	*Chesapeake Appalachia, LLC	.125 or greater	1502/052	20-21
WV-061-002143-001	TENNANT, DAVID GEORGE	*Chesapeake Appalachia, LLC	.125 or greater	1505/596	20-21
WV-061-002143-002	TENNANT, DELILAH S.	*Chesapeake Appalachia, LLC	.125 or greater	1511/535	20-21
WV-061-002143-005	MOORE, RUBY I.	*Chesapeake Appalachia, LLC	.125 or greater	1511/532	20-21
WV-061-002143-006	TENNANT, EDWARD	*Chesapeake Appalachia, LLC	.125 or greater	1511/489	20-21
WV-061-002143-007	BUTCHER, RICHARD D.	*Chesapeake Appalachia, LLC	.125 or greater	1511/510	20-21
WV-061-002263-001	TENNANT, ROY	*Chesapeake Appalachia, LLC	.125 or greater	1507/237	20-21
WV-061-002263-002	TENNANT, JUANITA RUTH	*Chesapeake Appalachia, LLC	.125 or greater	1507/466	20-21
WV-061-002514-001	FRANCIS, SANDRA K.	*Chesapeake Appalachia, LLC	.125 or greater	1517/842	20-21
WV-061-002549-001	TENNANT, JERRY LEE	*Chesapeake Appalachia, LLC	.125 or greater	1526/144	20-21
WV-061-002549-002	TENNANT, FLOYD	*Chesapeake Appalachia, LLC	.125 or greater	1526/145	20-21
WV-061-002549-003	SIERS, RICHARD	*Chesapeake Appalachia, LLC	.125 or greater	1526/153	20-21
WV-061-002549-004	GABELMAN, JANET	*Chesapeake Appalachia, LLC	.125 or greater	1526/151	20-21
WV-061-002549-005	FLINT, RONALD	*Chesapeake Appalachia, LLC	.125 or greater	1526/141	20-21
WV-061-002549-006	BESS, BARBARA	*Chesapeake Appalachia, LLC	.125 or greater	1526/139	20-21

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NOV 04 2015

NNE Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Tax Map & Parcel
WV-061-002549-007	TENNANT, EDWARD	*Chesapeake Appalachia, LLC	.125 or greater	1523/422	20-21
WV-061-002549-008	TENNANT, STEPHEN	*Chesapeake Appalachia, LLC	.125 or greater	1523/419	20-21
WV-061-002549-009	TENNANT, LOUIE MAE	*Chesapeake Appalachia, LLC	.125 or greater	1523/417	20-21
WV-061-002549-010	DEWITT, DIANA	*Chesapeake Appalachia, LLC	.125 or greater	1523/427	20-21
WV-061-002566-001	SIERS, ROSE	*Chesapeake Appalachia, LLC	.125 or greater	1429/711	20-21
WV-061-002566-002	TENNANT, BERNICE	*Chesapeake Appalachia, LLC	.125 or greater	1426/757	20-21
WV-061-002566-003	BRUMMAGE, TERRY	*Chesapeake Appalachia, LLC	.125 or greater	1425/341	20-21
WV-061-004007-000	TENNANT, NIMROD A. AND MARGARET J.	*Dewit, Ira	.125 or greater	1530/314	20-20
WV-061-001944-001	BASHAW, LINDA KAY	*Chesapeake Appalachia, LLC	.125 or greater	1394/140	20-15
WV-061-001944-002	HELDRETH, BARBARA	*Chesapeake Appalachia, LLC	.125 or greater	1396/098	20-15
WV-061-001944-003	MCWHORTER, ELEANOR L.	*Chesapeake Appalachia, LLC	.125 or greater	1394/143	20-15
WV-061-001944-004	TENNANT, DANNY D.	*Chesapeake Appalachia, LLC	.125 or greater	1395/170	20-15
WV-061-001944-008	TENNANT, ROY	*Chesapeake Appalachia, LLC	.125 or greater	1398/273	20-15
WV-061-002088-001	MCWHORTER, ELEANOR L.	*Chesapeake Appalachia, LLC	.125 or greater	1394/219	20-15
WV-061-002088-005	TENNANT, DANNY D.	*Chesapeake Appalachia, LLC	.125 or greater	1401/102	20-15
WV-061-004020-000	EDDY, MARK & BETTY A.	Northeast Natural Energy LLC	.125 or greater	1505/646	17-77,77.1
WV-061-004010-000	TENNANT, ALBERT	*C.J. Ford	.125 or greater	27/16	17-77,77.1

*See Attachment

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Chesapeake Appalachia, LLC.

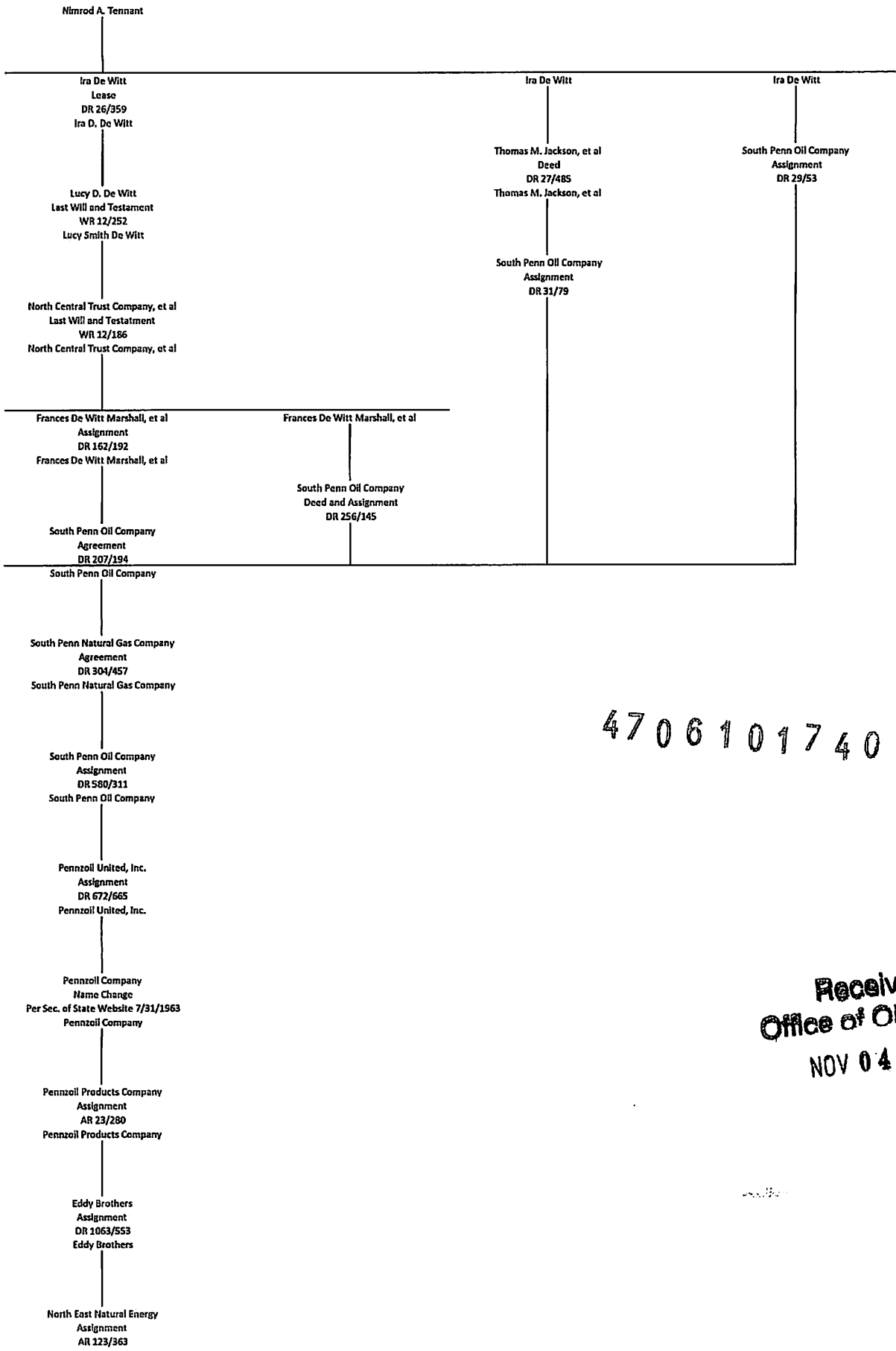


Northeast Natural Energy
Assignment
BK 120/769

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C. J. Fod (Charles J. Ford)

South Penn Oil Company
Assignment
DB 27/287
South Penn Oil Company

South Penn Natural Gas Company
Assignment
DB 304/457
South Penn Natural Gas Company

South Penn Oil Company
Deed
DB 580/311
Pennzoil Company

New Dunstan, Inc.
Assignment
AB 20/484
New Dunstan, Inc.

Pennzoil Company & Pennzoil Producing
Company
Deed
DB 210/611
Pennzoil Company & Pennzoil Production
Company

Pennzoil Products Company
Assignment
AR 23/280
Pennzoil Products Company

Eddy Brothers (Mark V. Eddy & Harry Eddy)
Assignment
DB 1063/553

Eddy Brothers (Mark V. Eddy & Harry Eddy)

NNE Resources, LLC
Assignment
AB 123/370

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November 2, 2015

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

RE: Kassay 8H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the roads identified as Country Road (State Route 25/3), and Dee Hollow Road (State Route 919) on the enclosed survey plat.

Sincerely,

A handwritten signature in blue ink that reads 'Jeannie Morgan Johnson'.

Jeannie Morgan Johnson, CPL
Vice President – Land Operations

Enclosure

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

Date of Notice Certification: 11/03/2015

API No. 47- _____
Operator's Well No. Kassay 8H
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>569093.1</u>
County: <u>Monongalia</u>		Northing: <u>4390135.2</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 align="center">OOG OFFICE USE ONLY</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 type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

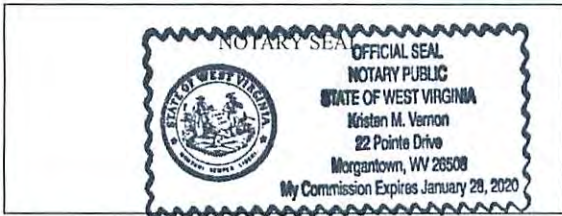
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notices 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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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 3rd day of November 2015.
Kristin Notary Public
 My Commission Expires January 28, 2020

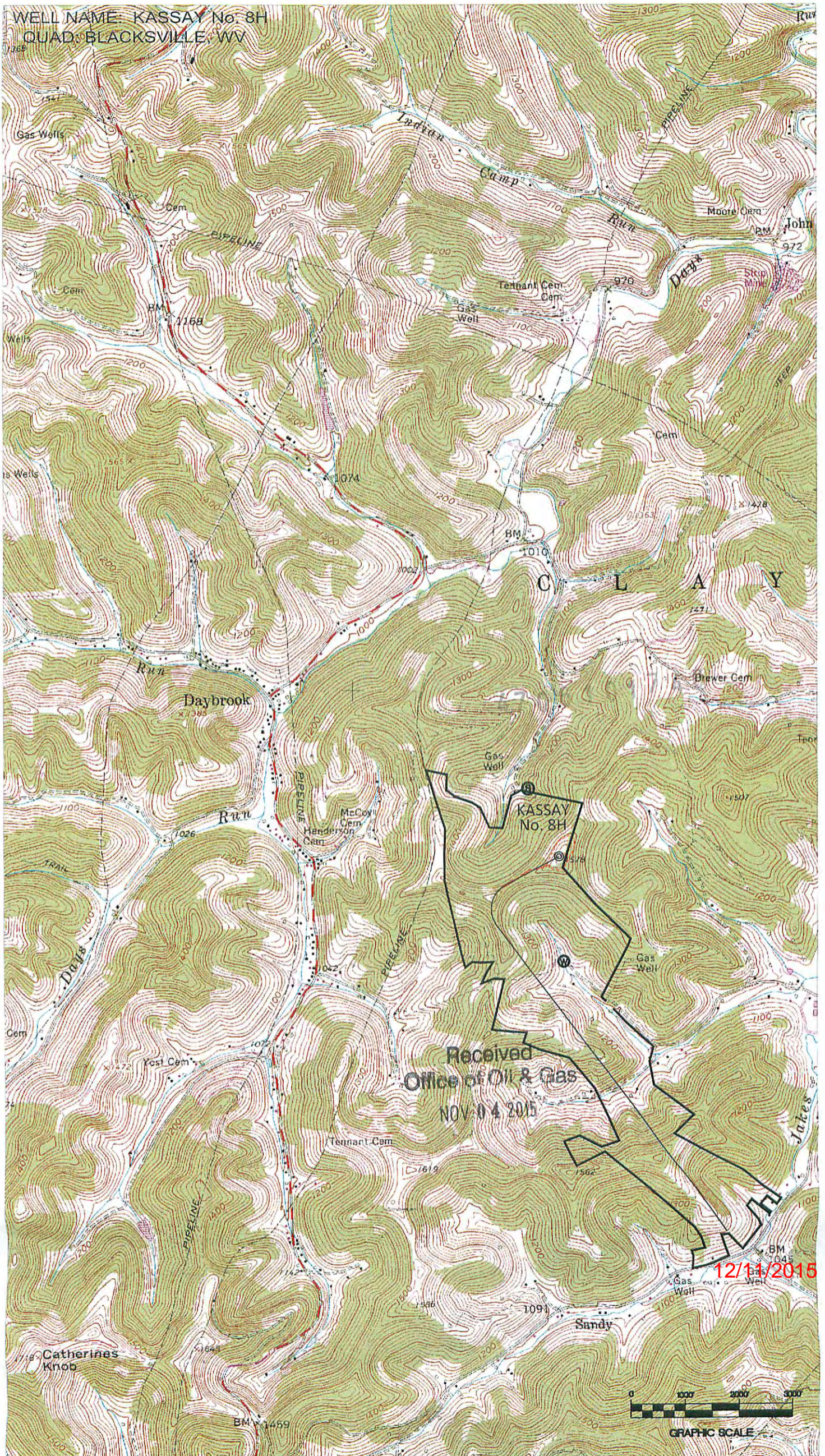
Oil and Gas Privacy Notice:

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.

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WELL NAME: KASSAY No. 8H
QUAD: BLACKSVILLE, WV



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WW-6A
(9-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Kassay 8H
Well Pad Name: Kassay

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

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

Date of Notice: 10/21/2015 **Date Permit Application Filed:** 11/3/2015

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

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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

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Kassay 8H

Surface Owner(s):

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

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(s) – Road and/or Other Disturbance:

4706101740

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

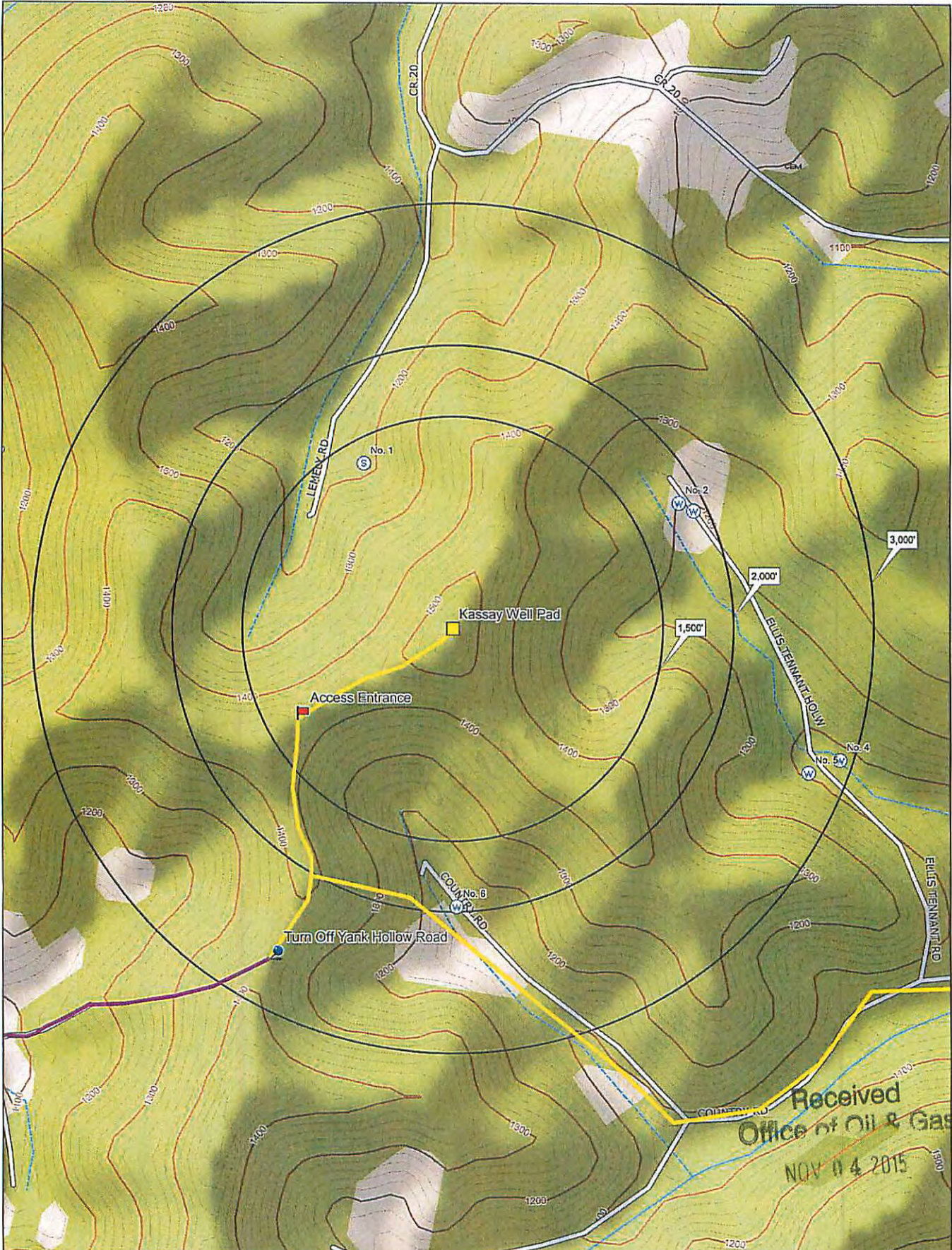
Coal Owner or Lessee:

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

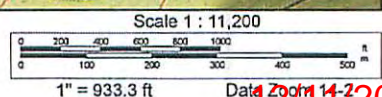
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 www.delorme.com



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Kassay 8H

Surface Owner of Water Well and/or Water Purveyor:

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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NOV 04 2015

12/11/2015

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: _____

*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>589112.37, 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 57th 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.

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 its 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. We 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.

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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 Grant Town, WV 26574
17-62	James Everett Williams II	21200 State Rt. 676 Marietta, OH 45750
17-62	James Varner, A Single Man	16170 Fleming Road Amesville, OH 45711
17-62	Janet Varner, A Widow	16005 Fleming Road Amesville, OH 45711
17-62	Jarrod Williams	P.O. Box 311 Pentress, WV 26544

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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 Dixon 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 Waxhaw, NC 28091
17-62	Robert Ora Wheeler And Paula	5210 Cass Street Oak Hills, OH 45763
17-62	Robert Varner, A Single Man	16005 Fleming Road Amesville, OH 45711
17-62	Rodney Wayne Tennant	1733 Jakes Run Road Fairview, WV 26570

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Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/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, if any, 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 57th 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 qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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 8H
Well Pad Name: Kassay

Notice is hereby given by:

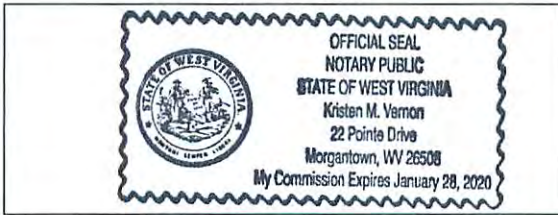
Well Operator: Northeast Natural Energy LLC
Telephone: 304-241-5752, ext. 7108
Email: hmedley@nne-llc.com

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 depprivacyofficer@wv.gov.

Hollis M Medley



Subscribed and sworn before me this 3rd day of November 2015.

Kristen _____ Notary Public

My Commission Expires January 28, 2020

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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: 10/21/2015 **Date Permit Application Filed:** 11/03/2015

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: _____

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>569093.1</u>
County:	<u>Monongalia</u>		Northing:	<u>4390135.2</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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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.

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NOV 04 2015

12/11/2015

Kassay 8H

Surface Owner(s):

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

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

4706101111

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12/11/2015

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: 10/21/2015 **Date Permit Application Filed:** 11/03/2015

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: _____

Name: 4706101740
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>569093.1</u>
County:	<u>Monongalia</u>		Northing:	<u>4390135.2</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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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.

Received
Office of Oil & Gas
NOV 04 2015

12/11/2015

Kassay 8H

Surface Owner(s):

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

Nehemiah and Patty Kassay ✓ *No objection*
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(s) – Road and/or Other Disturbance:

Nehemiah and Patty Kassay ✓ *No objection*
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

4706101740

Received
Office of Oil & Gas
NOV 04 2015

12/11/2015

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>569093.1</u>
County:	<u>Monongalia</u>	UTM NAD 83 Northing:	<u>4390135.2</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.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input checked="" type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Nehemiah Kassay</u></p> <p>Print Name: <u>NEHEMIAH KASSAY</u></p> <p>Date: <u>10-26-2015</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
--	--

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.

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NOV 04 2015

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>569093.1</u>
County:	<u>Monongalia</u>	UTM NAD 83 Northing:	<u>4390135.2</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 25/3 (Yank, Follow 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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input checked="" type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Nancy Carpenter</u></p> <p>Print Name: <u>Nancy Carpenter</u></p> <p>Date: <u>10/26/15</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
--	--

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Office of Oil and Gas
NOV 04 2015

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

Bernice J. Jernard, 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>569093.1</u>
County: <u>Monongalia</u>	Northing: <u>4390135.2</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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input checked="" type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Bernice Jernard</u></p> <p>Print Name: <u>Bernice Jernard</u></p> <p>Date: <u>10-29-2015</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
--	--

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Office of Oil and Gas

NOV 04 2015

12/11/2015

WW-6AW
(1-12)

API NO. _____
OPERATOR WELL NO. Kassay 8H
Well Pad Name: Kassay

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I, Ryan Arp, 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: West Virginia WVSPN NAD 27 Easting: 1,804,390.711
County: Monongalia Northing: 422,580.362
District: Clay Public Road Access: _____
Quadrangle: BLACKSVILLE Generally used farm name: _____
Watershed: _____

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, **provided that Northeast Natural Energy LLC drills the well on WY North NAD27 coordinates of North 422,580.362, East 1,804,390.711. This statement does not serve as notice that CONSOL Mining Company LLC has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by CONSOL Mining Company LLC mining activity. This Voluntary Statement of No Objection does not waive CONSOL Mining Company LLC's Common Law Property Rights in the State of West Virginia.**

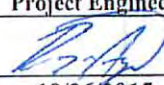
*Please check the box that applies

- 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: _____
Date: _____

FOR EXECUTION BY A CORPORATION, ETC.

Company: CONSOL Mining Company LLC
By: Ryan Arp
Its: Project Engineer
Signature: 
Date: 10/26/2015

Oil and Gas Privacy Notice:

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Received
Office of Oil & Gas
NOV 14 2015

12/11/2015



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 57th Street, SE
Charleston, WV 25304

4706101740

Subject: DOH Permit for the Kassay Pad, Monongalia County
Kassay 8H

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

Received
Office of Oil & Gas
NOV 04 2015

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 720	Scale Inhibitor	Diethylene Glycol	111-46-6

Received
Office of Oil & Gas
NOV 04 2015

06101760

EROSION & SEDIMENT CONTROL PLAN

KASSAY WELL PAD

MONONGALIA COUNTY, WEST VIRGINIA

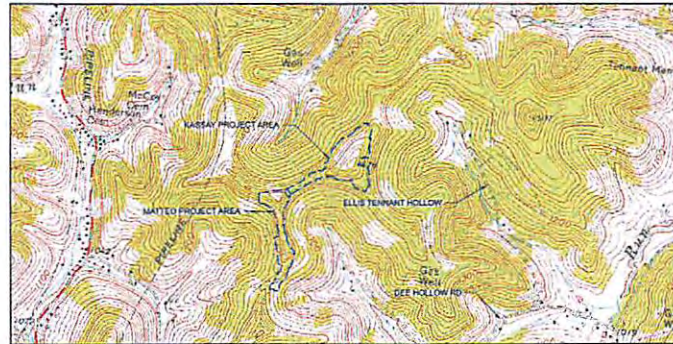
FOR

NORTHEAST NATURAL ENERGY LLC

APPROVED
WVDEP OOG
12/29/2014

API#6101689
API#6101694
API#6101695

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

4706101
ROBERT P. PARSONS, II
REGISTERED
15279
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
12-23-2014

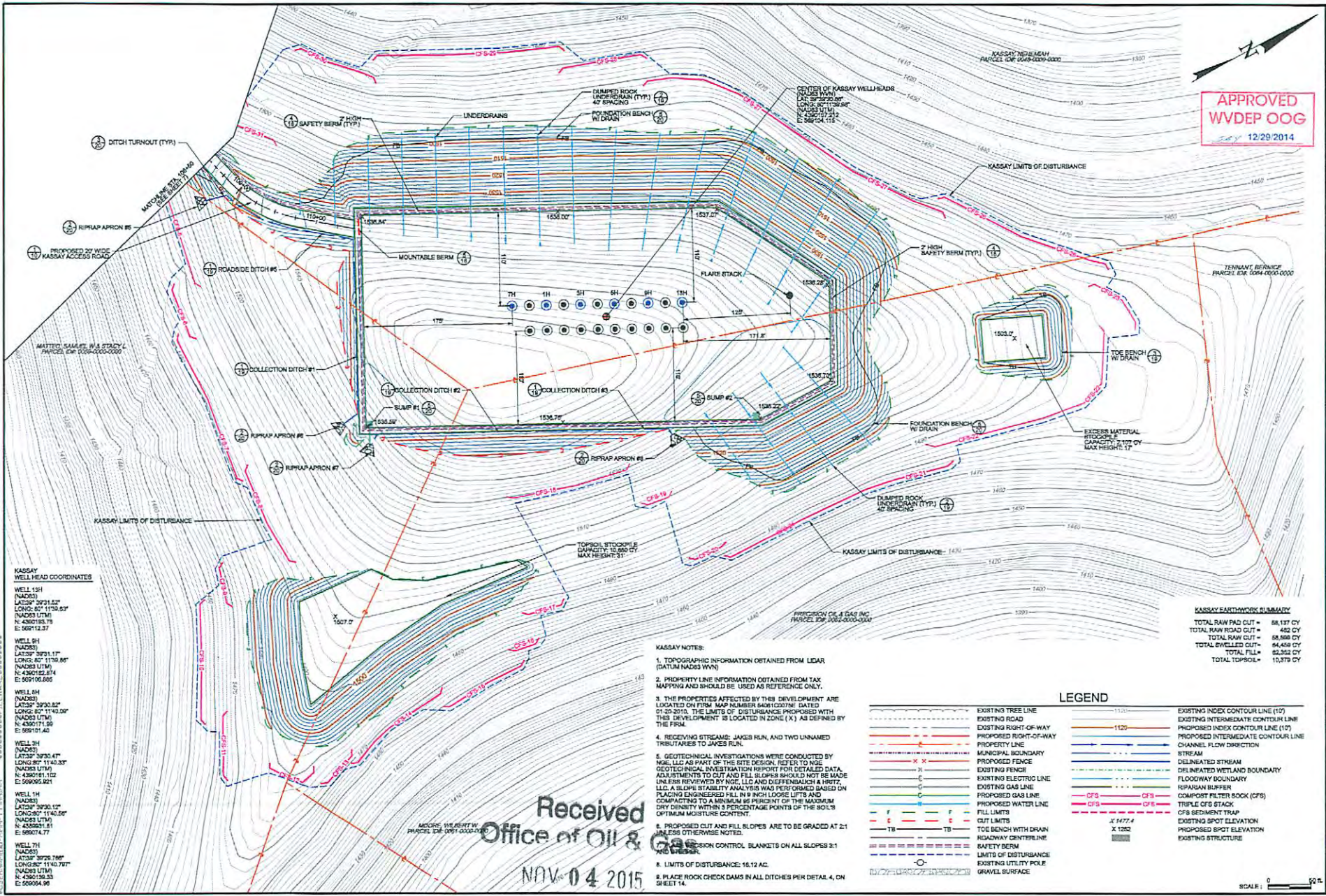
INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	OVERALL SITE PLAN
5-8	PROPOSED SITE PLAN
9-10	ACCESS ROAD PROFILE
11	SOIL PLAN
12-15	SITE RESTORATION PLAN
16	REVEGETATION PLAN
17	TYPICAL SECTIONS
18-20	EAS DETAILS

KASSAY LIMITS OF DISTURBANCE BREAKDOWN
OVERALL LIMITS OF DISTURBANCE: 15.65 AC
PROPOSED DESIGN ELEMENTS
ACCESS ROAD: 2.95 AC
WELL PAD: 13.00 AC
LAND OWNERS
KASSAY: 1.83 AC
MATTEO: 3.24 AC
PRECISION OIL & GAS INC. 4.78 AC

Received
Office of Oil & Gas
NOV 04 2015

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APPROVED
WVDEP OOG
12/29/2014



KASSAY WELL HEAD COORDINATES

WELL 15H (NAD83) LAT: 39° 30' 31.52" LONG: 80° 11' 50.83" N: 4360183.78 E: 569112.37	WELL 9H (NAD83) LAT: 39° 30' 31.11" LONG: 80° 11' 50.86" N: 4360182.814 E: 569108.886	WELL 6H (NAD83) LAT: 39° 30' 30.82" LONG: 80° 11' 43.00" N: 4360171.99 E: 569121.42	WELL 3H (NAD83) LAT: 39° 30' 30.47" LONG: 80° 11' 43.33" N: 4360171.99 E: 569095.921	WELL 14 (NAD83) LAT: 39° 30' 30.12" LONG: 80° 11' 40.80" N: 4360181.81 E: 569074.77	WELL 7H (NAD83) LAT: 39° 30' 29.79" LONG: 80° 11' 40.77" N: 4360181.81 E: 569064.96
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- KASSAY NOTES:**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM LEAR (DATUM NAD83 WYN)
 2. PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPPING AND SHOULD BE USED AS REFERENCE ONLY.
 3. THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM MAP NUMBER 80000000E DATED 11-20-2010. THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT IS LOCATED IN ZONE (X) AS DEFINED BY THE FIRM.
 4. RECEIVING STREAMS: JAKES RUN, AND TWO UNNAMED TRIBUTARIES TO JAKES RUN.
 5. GEOTECHNICAL INVESTIGATIONS WERE CONDUCTED BY NGE, LLC AS PART OF THE SITE DESIGN. REFER TO NGE GEOTECHNICAL INVESTIGATION REPORT FOR DETAILED DATA ADJUSTMENTS TO CUT AND FILL SLOPES SHOULD NOT BE MADE UNLESS REVIEWED BY NGE, LLC AND DIEFFENBAUGH & HIRTZ, LLC. A SLOPE STABILITY ANALYSIS WAS PERFORMED BASED ON PLACING ENGINEERED FILL IN 8 INCH LOOSE LIFTS AND COMPACTING TO A MINIMUM 95 PERCENT OF THE MAXIMUM DRY DENSITY WITH 5 PERCENTAGE POINTS OF THE SOIL'S OPTIMUM MOISTURE CONTENT.
 6. PROPOSED CUT AND FILL SLOPES ARE TO BE GRADED AT 2:1 UNLESS OTHERWISE NOTED.
 7. EROSION CONTROL BLANKETS ON ALL SLOPES 3:1 AND STEEPER.
 8. LIMITS OF DISTURBANCE: 16:12 AC.
 9. PLACE ROCK CHECK DAMS IN ALL DITCHES PER DETAIL 4, ON SHEET 14.

LEGEND

EXISTING TREE LINE	EXISTING INDEX CONTOUR LINE (10')
EXISTING ROAD	EXISTING INTERMEDIATE CONTOUR LINE
EXISTING RIGHT-OF-WAY	PROPOSED INDEX CONTOUR LINE (10')
EXISTING RIGHT-OF-WAY	PROPOSED INTERMEDIATE CONTOUR LINE
PROPERTY LINE	CHANNEL FLOW DIRECTION
MUNICIPAL BOUNDARY	STREAM
PROPOSED FENCE	DELINEATED STREAM
EXISTING FENCE	DELINEATED WETLAND BOUNDARY
EXISTING ELECTRIC LINE	FLOODWAY BOUNDARY
EXISTING GAS LINE	RIPARIAN BUFFER
PROPOSED GAS LINE	COMPOSITE FILTER ROCK (CFS)
PROPOSED WATER LINE	TRIPLE CFS STACK
FILL LIMITS	CFS SEDIMENT TRAP
CUT LIMITS	EXISTING SPOT ELEVATION
TOE BENCH WITH DRAIN	PROPOSED SPOT ELEVATION
ROADWAY CENTERLINE	EXISTING STRUCTURE
SAFETY BERM	
LIMITS OF DISTURBANCE	
EXISTING UTILITY POLE	
GRAVEL SURFACE	

KASSAY EARTHWORK SUMMARY

TOTAL RAW PAD CUT =	58,137 CY
TOTAL RAW ROAD CUT =	452 CY
TOTAL RAW CUT =	58,589 CY
TOTAL SWELLED CUT =	84,458 CY
TOTAL FILL =	82,352 CY
TOTAL TOPSOIL =	10,378 CY

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NOV 04 2015

NO. DATE
JOB NO. JSB/JDS
DRAIN
RCH
CHK/330
HLP
REV/330
DEC 2014
DATE
1338001
PROJECT NO.
DIEFFENBAUGH & HIRTZ
INCORPORATED, WY
CLIENT
NORTHEAST NATURAL ENERGY LLC
PROJECT
KASSAY WELL SITE
TITLE
PROPOSED SITE PLAN
SCALE: 0 50 FT
DRAWING NO. 08

Northeast Natural Energy LLC Mine Contingency Plan



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

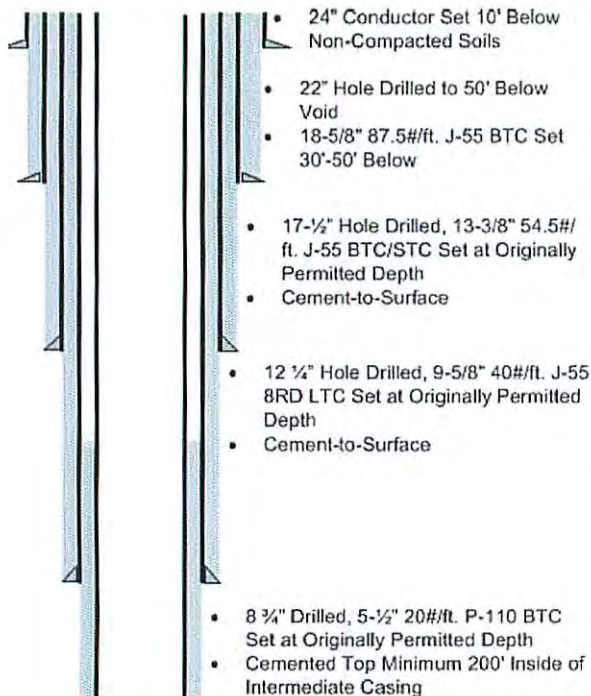
All casings programs submitted to the state incorporate the use of a 24” conductor over the previously used 20” that has long been the industry standard for a typical Marcellus design. The use of 24” conductor casing allows the use of a 22” bit to ream the surface hole, and drill 50’ below the void to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

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

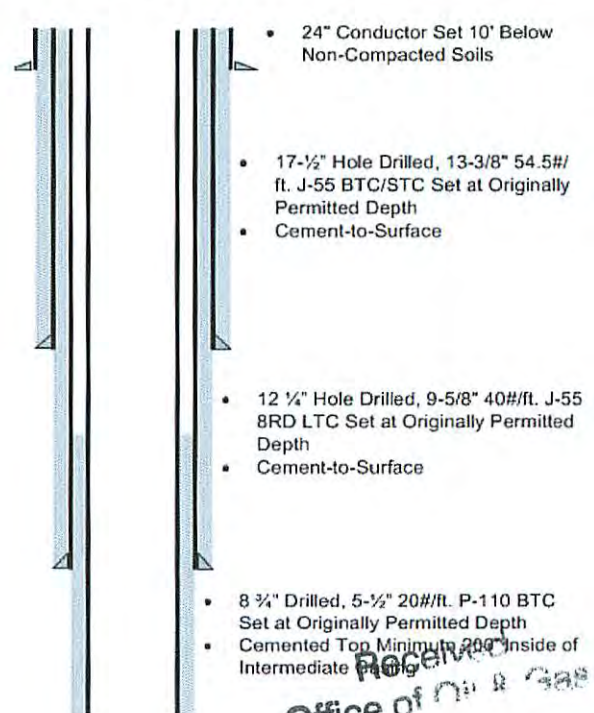
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2” bit and the 13-3/8” 54.50#/ft freshwater casing would be set at the originally permitted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

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

Casing Schematic w/ Mine String



Casing Schematic w/o Mine String



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VOID

SOLID COAL PILLARS

PREVIOUSLY MINED AREA

SOLID COAL PILLARS

VOID

ACCESS ROAD

WELL PAD BERM

13H
14H
15H
16H
17H
18H
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BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southpointe, PA 15317 Phone: 724-745-1055

WELL PAD EXHIBIT
THIS DOCUMENT WAS PREPARED BY:
BOORD, BENCHEK AND ASSOC., INC.
FOR: NORTHEAST NATURAL ENERGY, LLC.

DATE:
OCTOBER 2015
KASSAY WELL PAD
CLAY DISTRICT,
MONONGALIA
COUNTY, WV

PRELIMINARY

SCALE BAR: 1" = 100'



SHEET #