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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, December 10, 2019  
WELL WORK PLUGGING PERMIT  
Horizontal 6A Plugging

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

Re: Permit approval for MATTEO 2H  
47-061-01830-00-00

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

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over the printed name and title.

Operator's Well Number: MATTEO 2H  
Farm Name: SAMUEL W. & STACEY L. M  
U.S. WELL NUMBER: 47-061-01830-00-00  
Horizontal 6A Plugging  
Date Issued: 12/10/2019

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 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.

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### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

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47-061-01830P

NOV 21 2019

WW-4B  
Rev. 2/01

WV Department of  
Environmental Protection

1) Date September 9, 2019  
2) Operator's Well No. Matteo 2H  
3) API Well No. 47-061 - 01830 P

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1492 Watershed Dunkard Creek  
District Clay County Monongalia Quadrangle Blacksville

6) Well Operator Northeast Natural Energy LLC 7) Designated Agent Hollie M. Medley  
Address 707 Virginia Street E, Suite 1200 Address 48 Donley Street, Suite 601  
Charleston, WV 25301 Morgantown, WV 26501

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gayne Knitowski Name TBD  
Address P.O. Box 108 Address \_\_\_\_\_  
Gormanian, WV 26720

10) Work Order: The work order for the manner of plugging this well is as follows:

Mobilize a plugging rig and rig up over the well.

Trip in hole with a work string to confirm top of cement inside the surface casing.

Displace the synthetic base drilling fluid out of the casing by pumping 20bbl of gel spacer and fresh water.

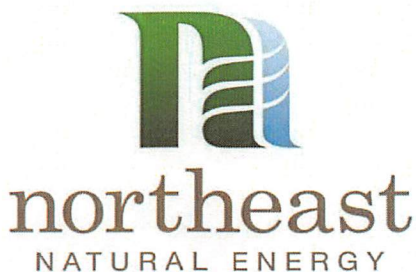
The drilling fluid will be collected in a tank and properly disposed.

Set a solid column API cement plug in 500' increments to surface. Wait on Cement

Fill the cellar with general construction concrete and place the P&A monument.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gayne Knitowski Digitally signed by Gayne Knitowski  
Date: 2019.09.25 12:23:04 -0400 Date 9/25/19



<b>Well Name</b>	<b>Matteo 2H</b>			
<b>API</b>	<b>47-061-01830</b>			
<b>Pad Elevation</b>	<b>1492.5 GL Elevation</b>			
<b>KB Height</b>	<b>25'</b>			
<b>WELLBORE DIAGRAM</b>	<b>HOLE</b>	<b>CASING</b>	<b>Comment</b>	<b>TVD</b>
	28"	24" (CTS)	Conductor	40
	17-1/2"	13-3/8" 54.5# J-55 BTC (CTS)	Top of Cement Plug	1148
			FW/Coal Casing	1198
			Red Rock Upper	1220
	12-1/4"	N/A	Bottom of Cement Plug	1582
			Top of Fish	1582
			Bottom of Fish	1966
			Red Rock Lower	2100
			Bottom Hole	2800

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State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 061 - 01830 County Monongalia District Clay  
Quad Blacksville Pad Name Matteo Field/Pool Name \_\_\_\_\_  
Farm name Matteo Well Number 2H  
Operator (as registered with the OOG) Northeast Natural Energy LLC  
Address 707 Virginia St. E, Suite 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4389916.1 Easting 568692.5  
Landing Point of Curve Northing NA Easting NA  
Bottom Hole Northing NA Easting NA

Elevation (ft) 1492 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)  
NA

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Date permit issued 2/28/19 Date drilling commenced 5/2/19 Date drilling ceased 7/16/19  
Date completion activities began NA Date completion activities ceased NA  
Verbal plugging (Y/N) Y Date permission granted 9/25/19 Granted by Gayne Knitowski, Inspector

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 915', 1040' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2,308' Void(s) encountered (Y/N) depths Y, 1040'  
Coal depth(s) ft 710', 984' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
\_\_\_\_\_

WR-35  
Rev. 8/23/13

API 47-061 - 01830 Farm name Matteo Well number 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	24"	40'	N	NA	NA	Y
Surface	17-1/2"	13-3/8"	1198'	N	54.5	NA	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	4,500 PSI Grout	36		.75	27	CTS	8+
Surface	Class A + 2%	547	15.6	1.21	1232	CTS, 10 bbl	8+
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 2,800      Loggers TD (ft) 2,780  
 Deepest formation penetrated Big Injun      Plug back to (ft) surface  
 Plug back procedure Set a solid column API cement plug in 500' increments to surface. Fill cellar with concrete.

Kick off depth (ft) NA

Check all wireline logs run       caliper     density     deviated/directional     induction  
 neutron     resistivity     gamma ray     temperature     sonic

Well cored     Yes     No      Conventional      Sidewall      Were cuttings collected     Yes     No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_  
Surface casing - bow spring centralizers every 3rd joint or approximately 120'

WAS WELL COMPLETED AS SHOT HOLE     Yes     No      DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?     Yes     No      DETAILS \_\_\_\_\_

WERE TRACERS USED     Yes     No      TYPE OF TRACER(S) USED \_\_\_\_\_

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WR-35  
Rev. 8/23/13

API 47- 061 - 01830 Farm name Matteo Well number 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	NA				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	NA							

Please insert additional pages as applicable.

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Ticket #: 0

Remit to:  
Lightning Energy Services  
104 Heliport Loop Road  
Bridgeport, WV 26330

Job Times				
Date:	On Loc:	Job Start:	Job End:	Off Loc:
	05/04/19			
Time:	10:00 AM	7:00 PM	12:00AM	2:00AM

Customer and Well Information					
Customer: northeast		Well Name:	Well #:	Well Type:	
County:	State: wv	AFE II/API II:	PO #/Permit #:	Well Class:	
Field:	Lease: MATTF0 2H	Rig Name/#: HIGHLAND RIG 8			
Wellbore Information					
Bit Size (Inches): 17.5	Well MD (ft):	Well TVD (ft): 1237	BHST (F°):	BHCT (F°):	Deviation ("):
Drilling Fluid Type:	Drilling Fluid Density (ppg):	Packer Depth (ft):	Treating Down:		
Previous Casing/Liner					
Size (Inches): 24	Weight (lb/ft):	Thread:	Grade:	Total Footage (ft): 40	
Casing/Liner/Tubing					
Size (Inches): 13.375	Weight (lb/ft): 54.5	Thread: B	Grade:	Total Footage (ft): 1198	
Job					
Job Type: SURFACE		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 468	Max Annulus Pressure (PSI):		Mix Water Temp (F°):	Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbl): ON CEMENT BACK		Top Job (bbl): 115	
Pipe Reciprocated : No	Circulation Lost: YES	Job Completed: YES	10 BBL5 CEMENT BACK WITH TOP OUT JOB		

57

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Environmental Protection

WW-4A  
Revised 6-07

NOV 21 2019

WV Department of  
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1) Date: 09/09/2019  
2) Operator's Well Number  
Matteo 2H  
3) API Well No.: 47 - 061 - 01830

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

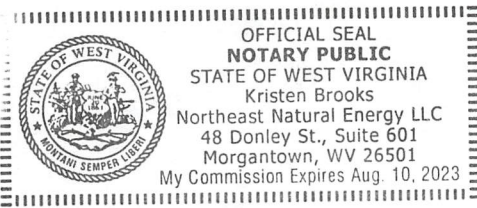
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Samuel W. and Stacey L. Matteo</u>	Name _____
Address <u>452 Country Road</u>	Address _____
<u>Fairview, WV 26570</u>	
(b) Name <u>Patty Ann Kassay</u>	(b) Coal Owner(s) with Declaration
Address <u>1991 Daybrook Road</u>	Name <u>Murray American Energy</u>
<u>Fairview, WV 26570</u>	Address <u>46226 National Road</u>
	<u>St. Clairsville, OH 43950</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Gayne Knitowski</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 108</u>	Name _____
<u>Gormanian, WV 26720</u>	Address _____
Telephone <u>304.546.8171</u>	

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Northeast Natural Energy LLC  
 By: Hollie M. Medley  
 Its: Regulatory Manager  
 Address 707 Virginia Street East, Suite 1200  
Charleston, WV 25301  
 Telephone 304.212.0422

Subscribed and sworn before me this 24th day of September, 2019  
Kristen Brooks Notary Public  
 My Commission Expires August 10, 2023

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-4B

API No. 47-061-01830  
Farm Name \_\_\_\_\_  
Well No. Matteo 2H

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

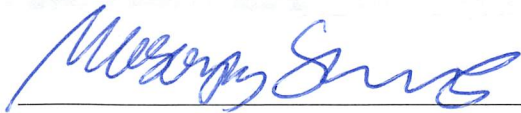
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_\_ / owner X / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 10-30-2019

  
\_\_\_\_\_

By: Mason Smith, Consolidation Coal Company  
Its Coal, oil and gas relations manager

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WW-9  
(5/16)

API Number 47 - 061 - 01830  
Operator's Well No. \_\_\_\_\_

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: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- 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: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Any solid waste from plugging will be taken to a landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Please see Attached.

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 April 1, 2016, 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 Manager

Subscribed and sworn before me this 24th day of September 2019

Kristen Brooks

Notary Public



OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
Kristen Brooks  
Northeast Natural Energy LLC  
48 Donley St., Suite 601  
Morgantown, WV 26501  
My Commission Expires Aug. 10, 2023

My commission expires August 10, 2023

Form WW-9

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed 6.7 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
Orchard Grass	46
Red Clover	8
Tetraploi Perennial Rye	16
Timothy 15 Annual Rye 15	

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

**Attach:**

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Gayne Knitowski Digitally signed by Gayne Knitowski  
Date: 2019.09.25 12:26:04 -0400

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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Title: Inspector

Date: 9-25-19

Field Reviewed? (  ) Yes (  ) No

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN

Operator Name: Northeast Natural Energy LLC

Watershed (HUC 10): Dunkard Creek Quad: Blacksville, WV

Farm Name: Matteo 2H

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Fluids will not be discharged

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

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5. Discuss any existing groundwater quality data for your facility or an adjacent property.

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

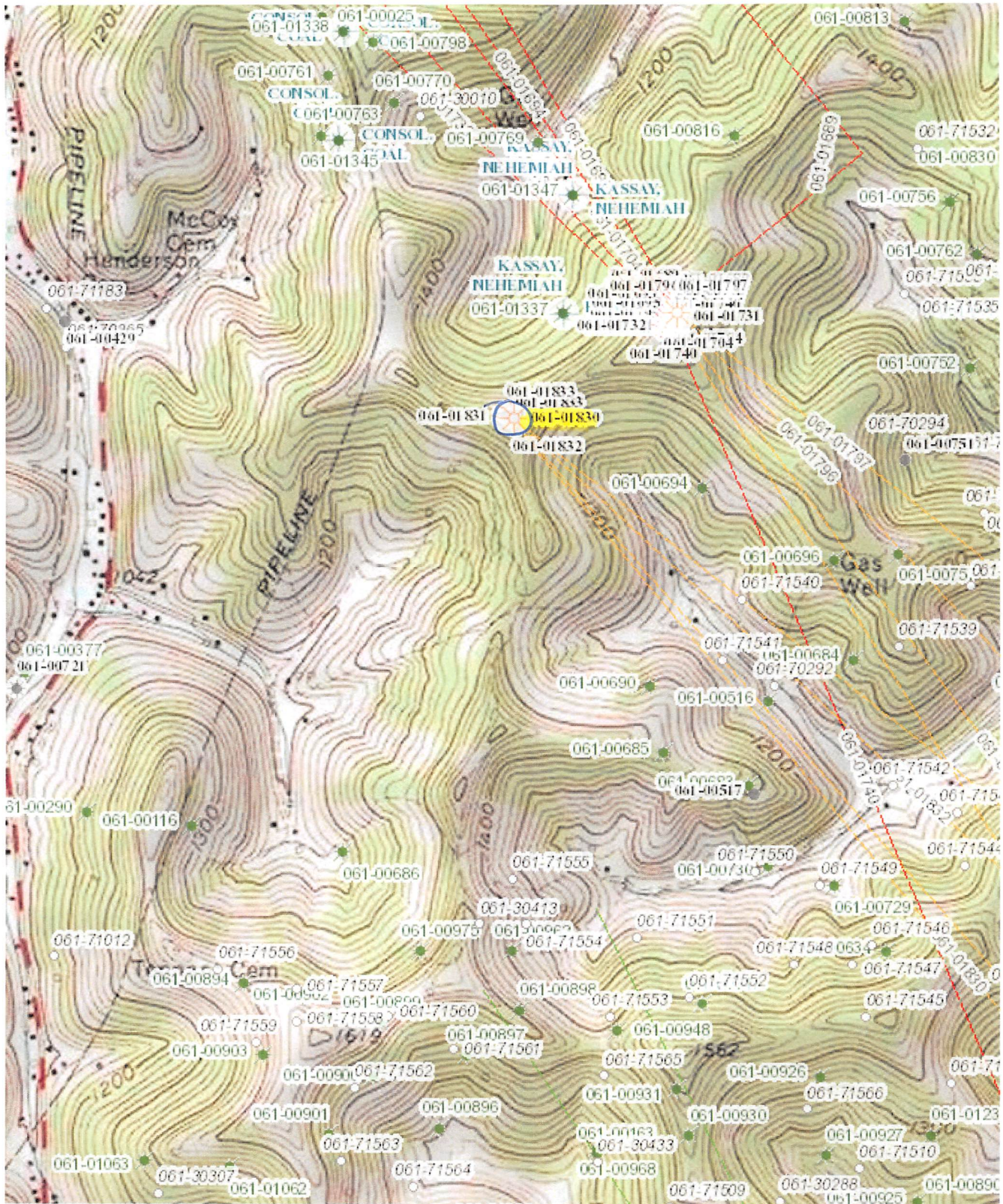
Signature: Hollie Mealy

Date: 9-24-19

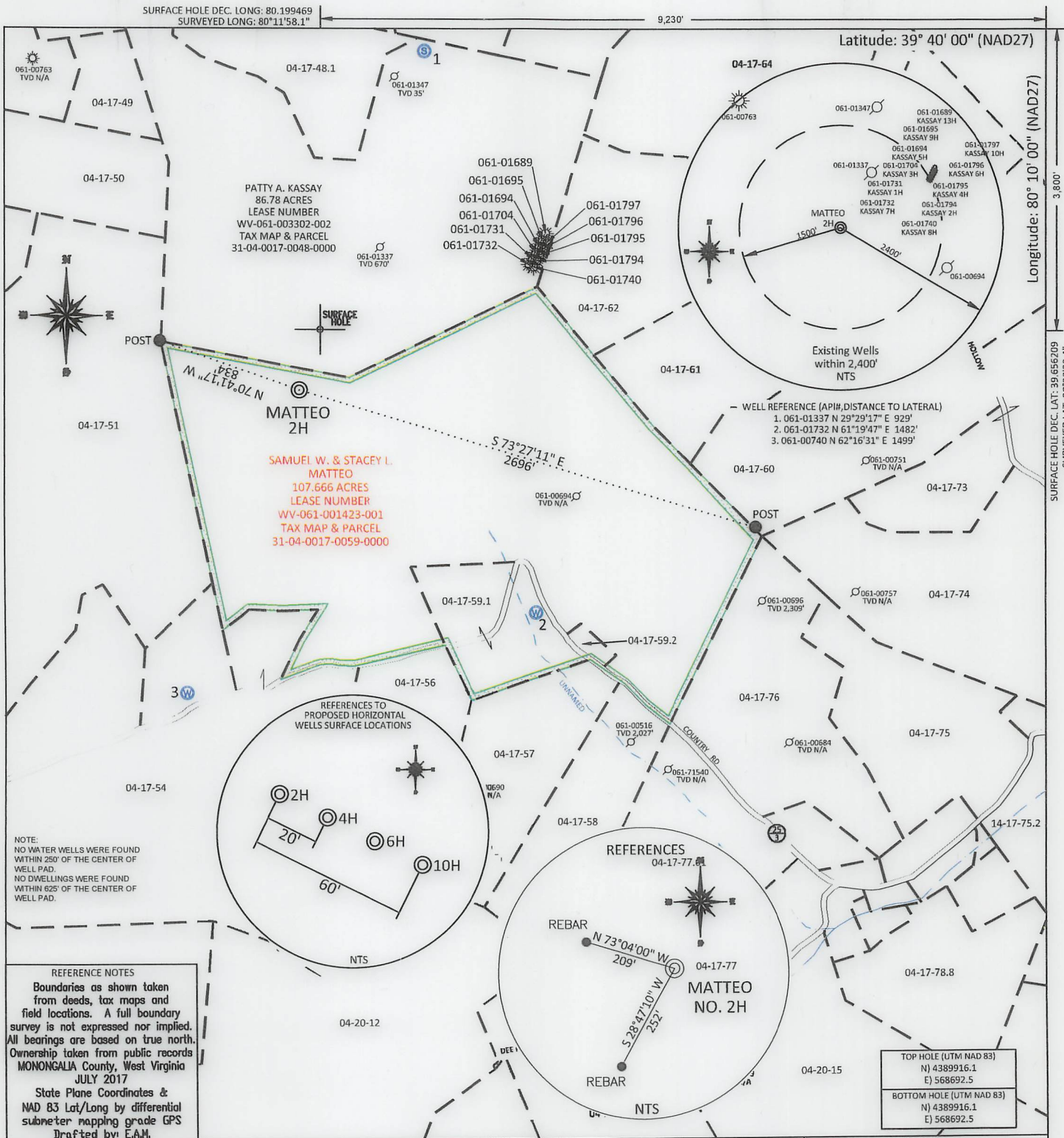
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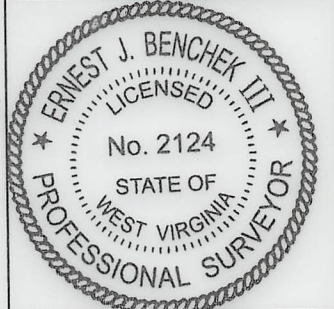
NOTE:  
 NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.  
 NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD.

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 JULY 2017  
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS  
 Drafted by: E.A.M.

TOP HOLE (UTM NAD 83)  
 N) 4389916.1  
 E) 568692.5  
 BOTTOM HOLE (UTM NAD 83)  
 N) 4389916.1  
 E) 568692.5

FILE #: NNE15  
 DRAWING #: 2869  
 SCALE: PLAT: 1" = 800'  
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 CURRENT ELEVATION: AS-BUILT - 1,492.50'  
 COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE  
 SURFACE OWNER: SAMUEL W. & STACEY L. MATTEO ACREAGE: 107.666 +/-  
 OIL & GAS ROYALTY OWNER: LULA HAZE TENNANT JONES, et al ACREAGE: 107.666 +/-  
 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 ESTIMATED DEPTH: TVD: 2,800' TMD: 2,800'  
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: OCTOBER 07, 2019  
 OPERATOR'S WELL #: MATTEO 2H  
 API WELL #: 47 61 01830  
 STATE COUNTY PERMIT