



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Tuesday, March 15, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for 6H
47-061-01894-00-00

Extended Lateral Length

NORTHEAST NATURAL ENERGY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 6H
Farm Name: YOST HERITAGE INC
U.S. WELL NUMBER: 47-061-01894-00-00
Horizontal 6A New Drill
Date Modification Issued: 3/15/2022

Promoting a healthy environment.

03/18/2022

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: 6H Well Pad Name: Yost

3) Farm Name/Surface Owner: Yost Heritage Inc Public Road Access: Daybrook Road/218

4) Elevation, current ground: 1,494' Elevation, proposed post-construction: 1,494'

5) Well Type (a) Gas X Oil NA Underground Storage NA
Other NA

(b) If Gas Shallow X Deep NA
Horizontal X

SOW
2/23/22

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,280', 103', 3600 PSI

RECEIVED
Office of Oil and Gas
MAR 01 2022

8) Proposed Total Vertical Depth: 8,280'

9) Formation at Total Vertical Depth: Marcellus

WV Department of
Environmental Protection

10) Proposed Total Measured Depth: 21,398'

11) Proposed Horizontal Leg Length: 12,428'

12) Approximate Fresh Water Strata Depths: 1,378'

13) Method to Determine Fresh Water Depths: Drillers log from offset wells

14) Approximate Saltwater Depths: 2,410'

15) Approximate Coal Seam Depths: 320', 712'

16) Approximate Depth to Possible Void (coal mine, karst, other): NA

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

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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	100'	100'	CTS
Fresh Water	13-3/8"	New	J-55	54.5	1,490'	1,460'	CTS
Coal					NA	NA	
Intermediate	9-5/8"	New	J-55	36	2,660'	2,630'	CTS
Production	5-1/2"	New	P-110	20	21,398'	21,368'	5,046
Tubing	2-7/8"	New	P-110	6.5	NA	8,500'	NA
Liners							

*SDW
2/23/22*

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"	32"	.375"	NA	NA	Class A	1.19
Fresh Water	13-3/8"	17 1/2"	.380"	2,730	500	Class A	1.19
Coal							
Intermediate	9-5/8"	12 3/8"	.395"	3,520	2,800	Class A	1.19
Production	5-1/2"	8 3/4"	.361"	14,360	11,500	50:50 Poz	1.16
Tubing	2-7/8"	NA	.217"	13,870	NA	NA	NA
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Utilize auger rig to set cellar & conductor. The conductor will be set with cement to surface. Mobilize top hole drilling rig. Drill surface section on air. Run surface (freshwater & coal string) casing to desired depth. The surface casing will not penetrate sea level. Surface casing will be cemented to surface. Drill intermediate section on air. Run intermediate casing to desired depth. Intermediate casing will be cemented to surface. Drill on air the production section to the start of the curve (KOP). The well will be loaded with synthetic oil base drilling mud (SOBM). Demobilize top hole rig. Mobilize horizontal drilling rig. Finish drilling the production section utilizing MWD surveys and geosteering practices to maintain the wellbore in the Marcellus shale and prevent anti-collision. Production casing will be ran to TD and cement top will be inside the intermediate casing.

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

A cement bond log will determine the top of production casing cement. The production casing will be pressure tested. The hydraulic fracturing equipment will then open the toe sleeves and begin pumping the first stage. The plug-and-perf method will be used for the remaining stages. The max anticipated pressure during frac is 11,200psi and a max rate of 90bpm. After frac, the drillout rig will drill all plugs out of the well. Land production tubing at desired depth. Then flowback well until ready to turn in line to production facilities.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 31.12

22) Area to be disturbed for well pad only, less access road (acres): 10.4

23) Describe centralizer placement for each casing string:

Surface: shoe track & every 3rd joint to surface
Intermediate: shoe track & every 3rd joint to surface
Production: Rigid bow centralizers at shoe track & every other joint in the lateral to KOP. Bow springs from KOP to surface every third joint.

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

Surface string cement will be a Type 1 + Max 3% bwoc Calcium Chloride Fresh Water blend.
Intermediate string cement will be a Type 1 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:

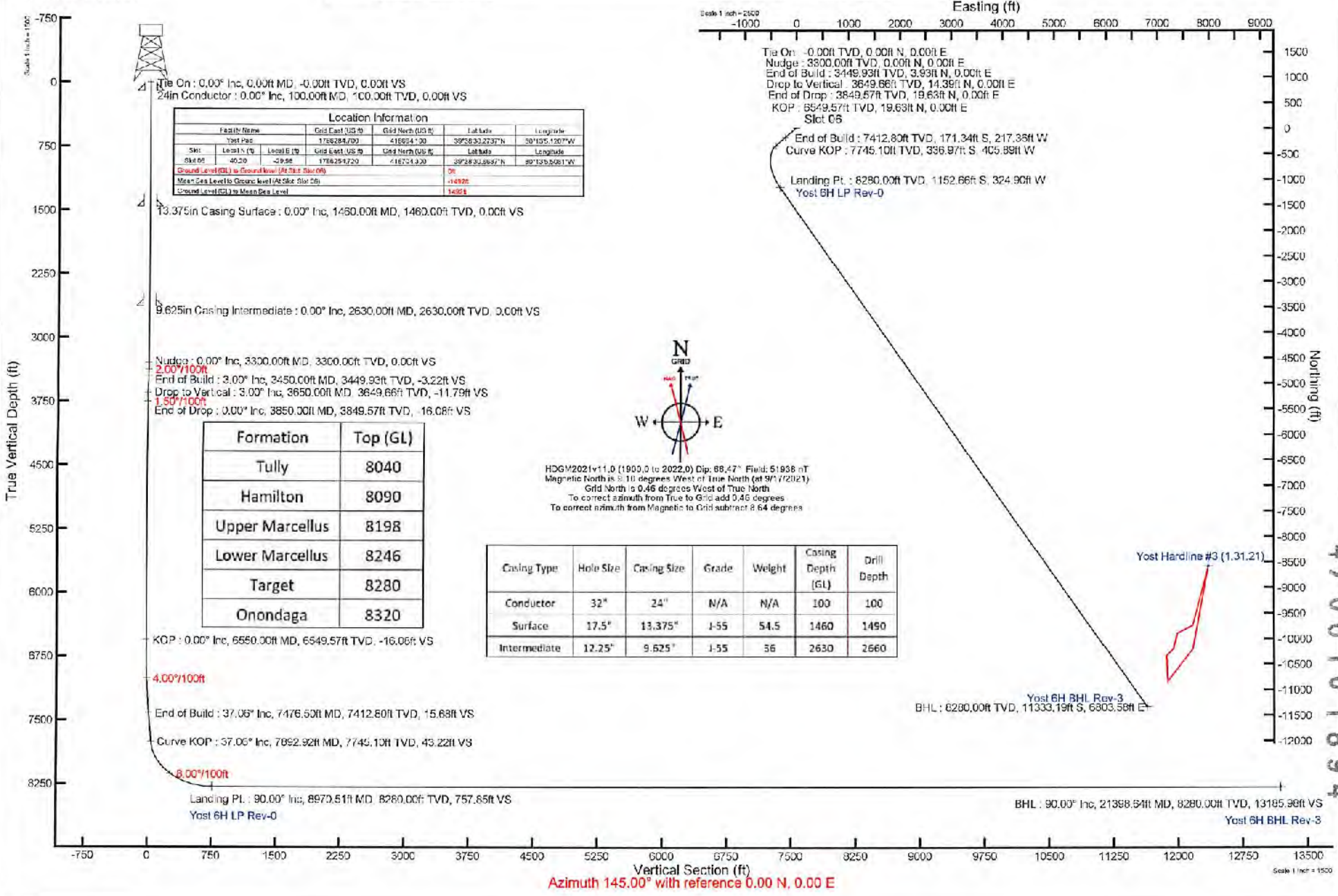
Surface & intermediate on air will utilize high volumetric flow rates of air to ensure the wellbore is clean prior to TOH.
Production section will utilize synthetic oil based drilling mud to properly clean the wellbore. At TD, pump rate and rotation will be maximized and tripping will not begin until shakers flow clean.
Production casing will be circulated prior to cementing to ensure a prepared wellbore for cement.

*Note: Attach additional sheets as needed.

NORTHEAST NATURAL ENERGY, LLC

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

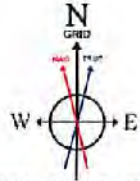
Slot: Slot 06
 Well: Yost 6H
 Wellbore: Yost 6H PWB



Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Yost Pad	1786284.700	416694.130	39°58'30.2737"N	80°10'5.1207"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot 06	40.20	-39.98	1786284.720	416724.920
			39°58'30.8897"N	80°13'5.5081"W
Ground Level (GL) to Ground Level (At 75.1 ft Slur Off)				0'
Mean Sea Level to Ground Level (At Slot Slot Off)				-14.92'
Ground Level (GL) to Mean Sea Level				14.92'

Formation	Top (GL)
Tully	8040
Hamilton	8090
Upper Marcellus	8198
Lower Marcellus	8246
Target	8280
Onondaga	8320

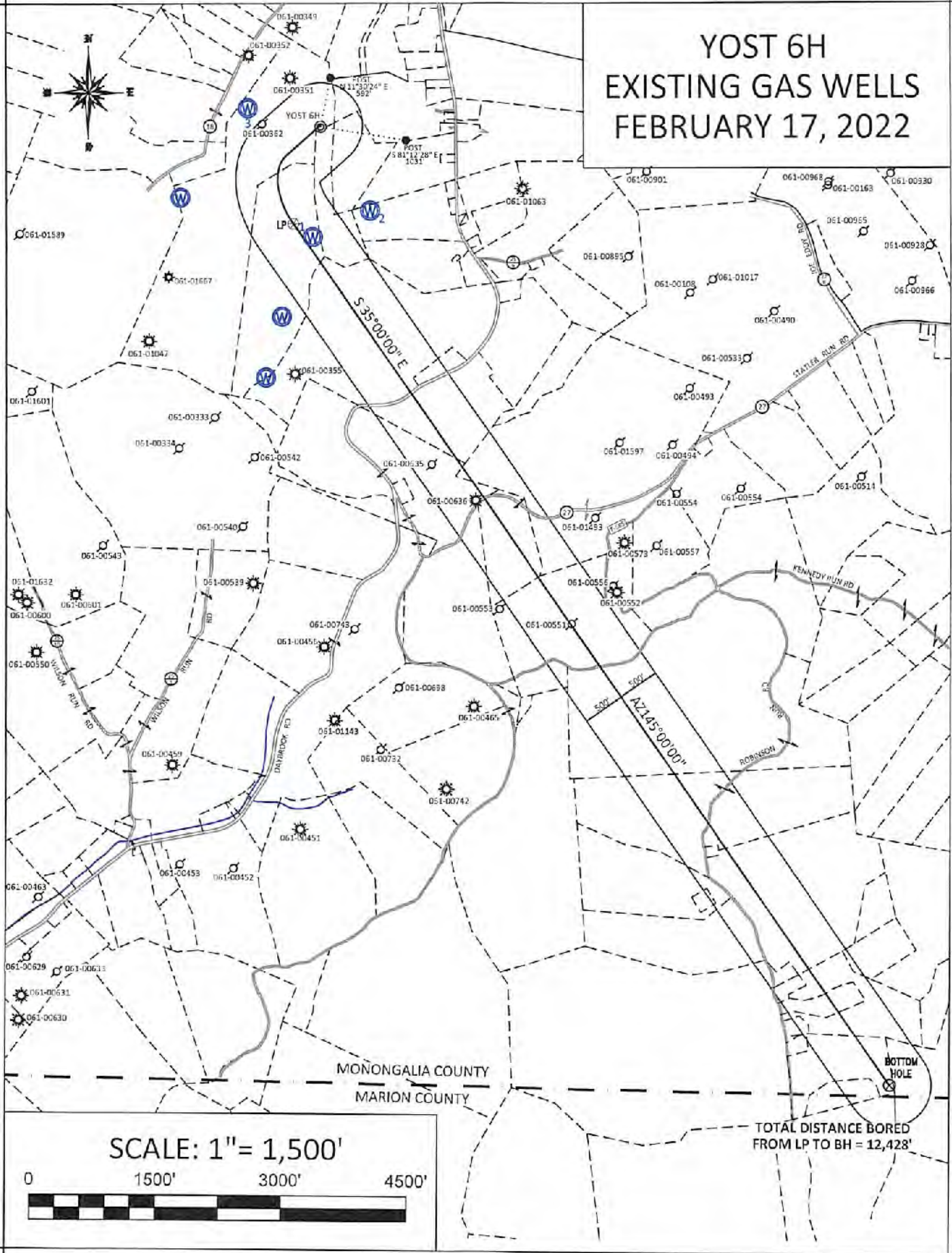
Casing Type	Hole Size	Casing Size	Grade	Weight	Casing Depth (GL)	Drill Depth
Conductor	32"	24"	N/A	N/A	100	100
Surface	17.5"	13.375"	J-55	54.5	1460	1490
Intermediate	12.25"	9.625"	J-55	56	2630	2660



HDM2021v11.0 (1900.0 to 2022.0) Dip: 88.47° Field: 51938 nT
 Magnetic North is 8.111 degrees West of True North (at 9/17/2021)
 Grid North is 0.46 degrees West of True North
 To correct azimuth from True to Grid add 0.46 degrees
 To correct azimuth from Magnetic to Grid subtract 8.64 degrees

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YOST 6H EXISTING GAS WELLS FEBRUARY 17, 2022



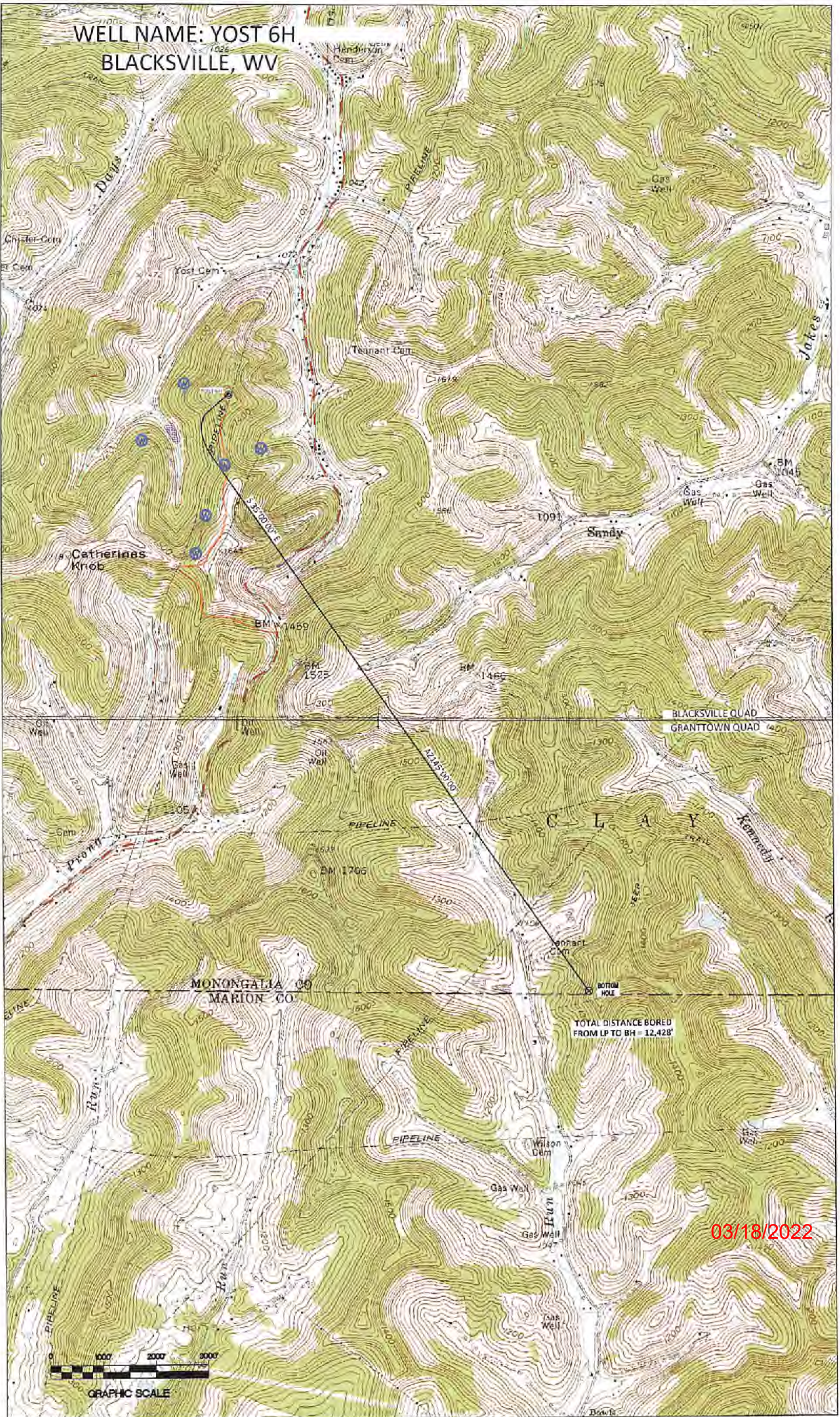
TOTAL DISTANCE BORED FROM LP TO BH = 12,428'

YOST 6H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Comments
061-00362	Daybrook Dev	F2-533	Eastern Associated / Peabody Coal Company	39.641081	-80.220134	4-19-43.1	2471	Big Injun
061-00636	D Ammons	NA	Eastern Associated / Peabody Coal Company	39.629771	-80.211506	4-20-44	NA	NA
061-00635	W. Devine	4	Eastern Associated / Peabody Coal Company	39.630931	-80.213381	4-20-44	NA	Plugged 12/14/1981

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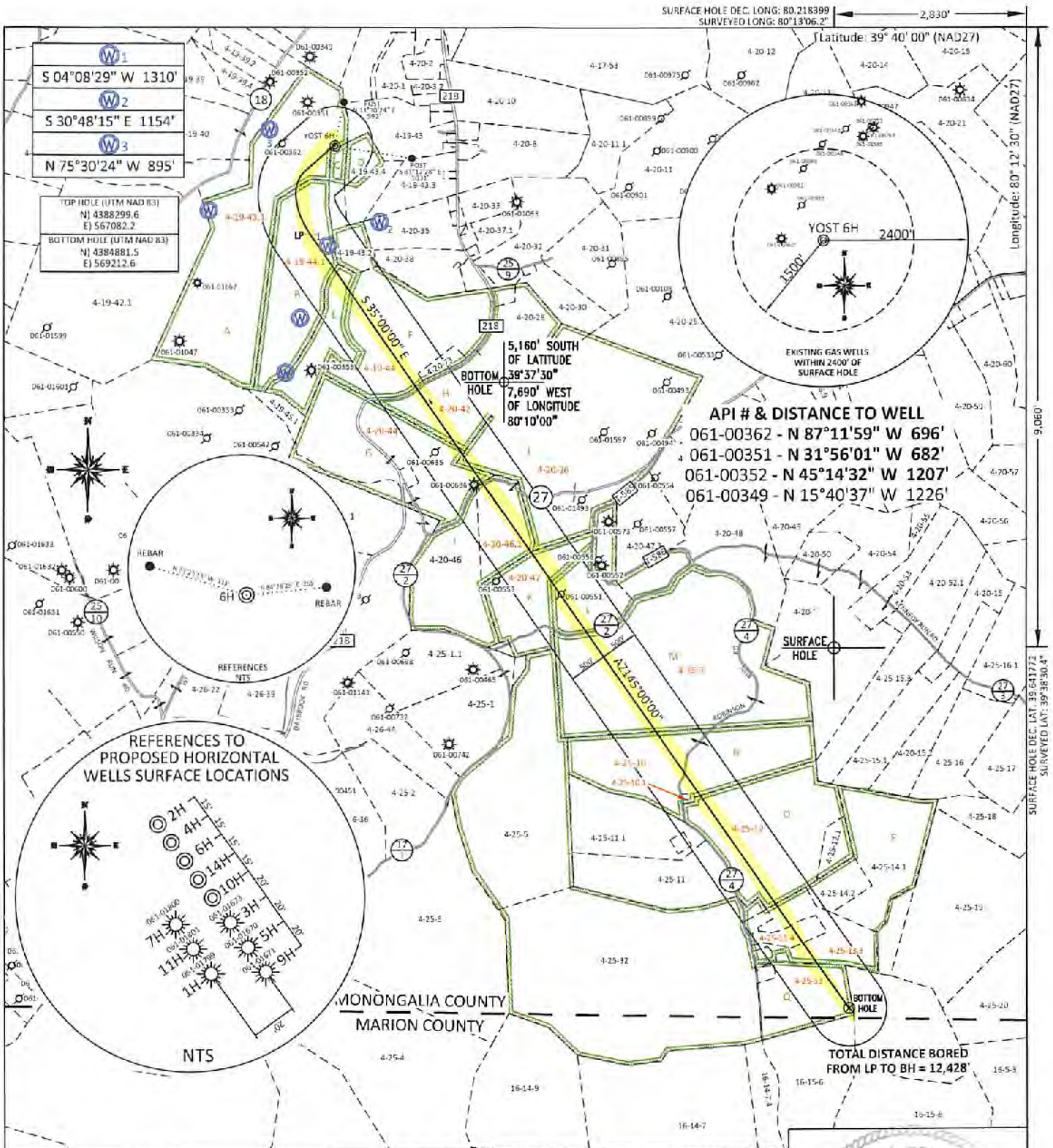
WELL NAME: YOST 6H
BLACKSVILLE, WV



03/18/2022

TOTAL DISTANCE BORED
FROM LP TO BH = 12,428'

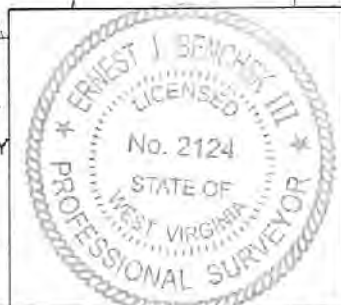




FILE #: NEE14
 DRAWING #: 3037
 SCALE: PLAT: 1" = 1800' TICK MARK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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: YOST HERITAGE INC
 OIL & GAS ROYALTY OWNER:
 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: FEBRUARY 24, 2022
 OPERATOR'S WELL #: YOST 6H
 API WELL #: 47 61 01894
 STATE COUNTY PERMIT
 AS-BUILT ELEVATION: 1,494.93'
 QUADRANGLE: BLACKSVILLE, WV
 ACREAGE: 93.08 +/- 03/18/2022
 ACREAGE: 1164.391 +/-

ESTIMATED DEPTH: TVD: 8,280' TMD: 21,398'
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-19-43.1	YOST HERITAGE INC
4-19-44.1	YOST HERITAGE INC
4-19-44	LOIS JEAN MCCOY, SANDY L MOORE ET AL
4-20-44	GARY D YOST
4-20-42	THOMAS R & NORA M MCCOY
4-20-26	RANDY D & VICKY S AMMONS (LIFE DELBERT E & LOLA HARTLEY)
4-20-46.1	ROBERT & SUNDAY BERRY
4-20-47	DARRELL E EDDY
4-25-7	EVA V, ROGER A & RONALD T TULANOWSKI II
4-25-10	KITTY S & CRYSTAL WOLFE
4-25-10.1	KITTY S WOLFE & CRYSTAL L HAYES
4-25-12	KITTY S HAYES
4-25-13.4	AARON & DEBBIE CLEVINGER
4-25-13.3	AARON & DEBBIE CLEVINGER
4-25-33	EDWARD & KARLA STROSNIDER

LEASE INDEX			
A	WV-061-001043-002	J	WV-061-004923-003
B	WV-061-001043-002	K	WV-061-005854-001
C	WV-061-001043-002	L	WV-061-005853-001
D	WV-061-003452-000	M	WV-061-005853-001
E	WV-061-001043-002	N	WV-061-005853-001
F	WV-061-000173-065	O	WV-061-005853-001
G	WV-061-004923-001	P	WV-061-005851-001
H	WV-061-000173-065	Q	WV-049-004080-001
I	WV-061-002303-006		

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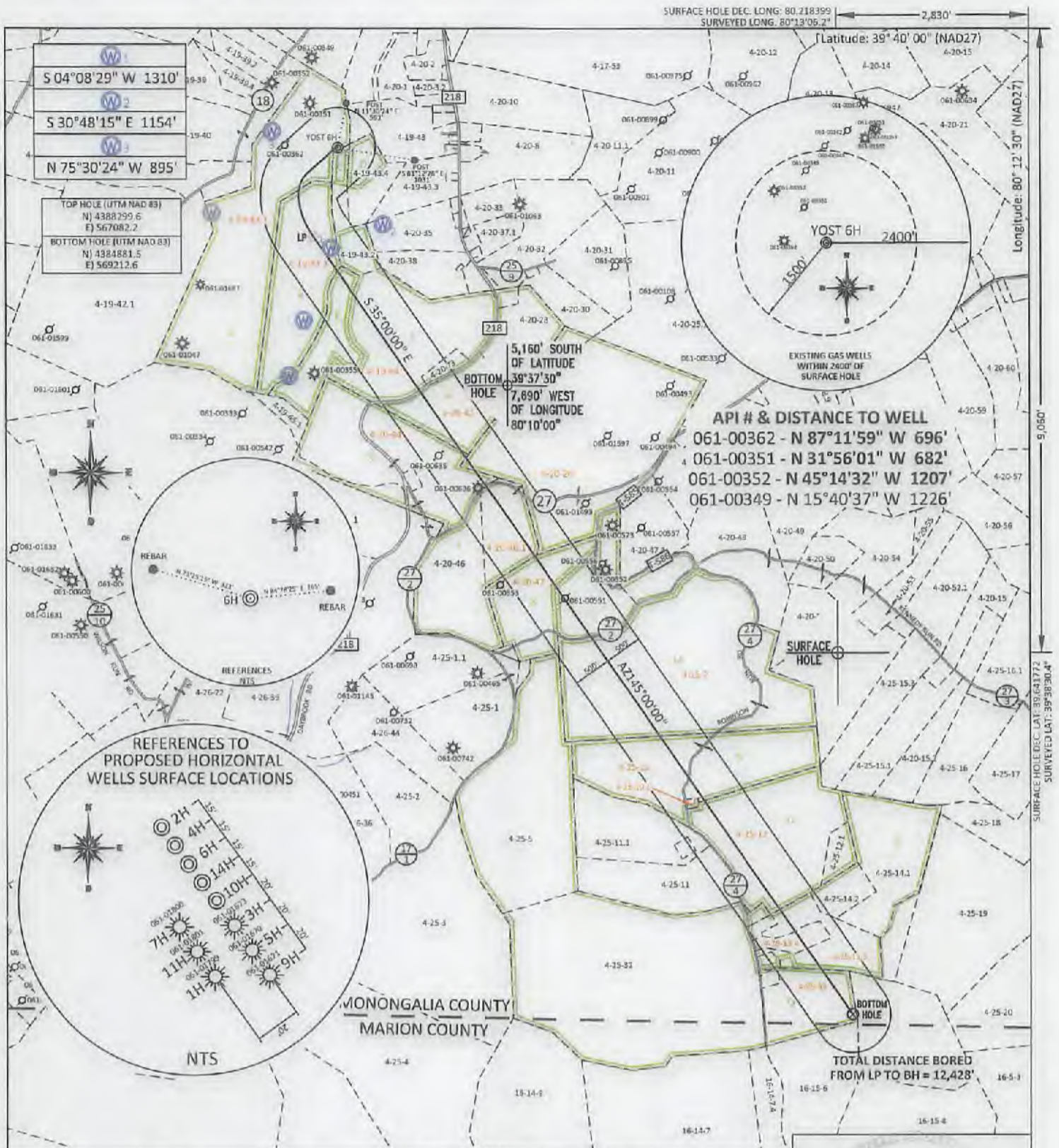
DRAWING #: 2978

SCALE: N/A

DATE: FEBRUARY 24, 2022

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API WELL #: 47 61 01894
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 Signed: [Signature]
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WYDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304
 Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: DUNKARD CREEK
 COUNTY/DISTRICT: MONONGALIA / CLAY
 SURFACE OWNER: YOST HERITAGE INC
 OIL & GAS ROYALTY OWNER: _____
 LEASE NUMBERS: _____

DATE: FEBRUARY 24, 2022
 OPERATOR'S WELL #: YOST 6H
 API WELL #: 47 61 01894 - M&D
 STATE COUNTY PERMIT
 AS-BUILT ELEVATION: 1,494.93'
 QUADRANGLE: BLACKVILLE, WV
 ACREAGE: 93.08 +/03/18/2022
 ACREAGE: 1164.391 +/-

TARGET FORMATION: MARCELLUS
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____
 ESTIMATED DEPTH: TVD: 8,280' TMD: 21,398'
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F	WV-061-000173-065	O	WV-061-005853-001
G	WV-061-004923-001	P	WV-061-005851-001
H	WV-061-000173-065	Q	WV-049-004080-001
I	WV-061-002303-006		

03/18/2022

FILE #: NEE14

DRAWING #: 2978

SCALE: N/A

DATE: FEBRUARY 24, 2022

OPERATOR'S WELL #: YOST 6H

API WELL #: 47 61 01894 -MID
STATE COUNTY PERMIT

**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
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See Attached

**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

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
 By: Hollie Medley *Hollie Medley*
 Its: Regulatory Manager

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-001043-002	Yost Heritage, Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	1512	513
B	WV-061-001043-002	Yost Heritage, Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	1512	513
C	WV-061-001043-002	Yost Heritage, Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	1512	513
	WV-061-004558-004	Correll Cummins	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	600
D	WV-061-000682-000	Yost Heritage, Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	1513	611
	WV-061-000682-039	Chac D. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1503	809
	WV-061-000682-096	Donald Spencer Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1449	304
	WV-061-000682-003	Bryon D. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1449	310
	WV-061-000682-096	Donald L. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1449	308
	WV-061-000682-009	Thomas A. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1450	455
	WV-061-000682-012	Robert Leon Pyles	Northeast Natural Energy, LLC	12.5% Royalty or More	1450	463
	WV-061-000682-015	James Morgan Pyles	Northeast Natural Energy, LLC	12.5% Royalty or More	1450	110
	WV-061-000682-032	Robert R. Martin	Northeast Natural Energy, LLC	12.5% Royalty or More	1503	124
	WV-061-000682-031	Jamie Hubbard	Northeast Natural Energy, LLC	12.5% Royalty or More	1503	659
	WV-061-000682-031	Jennifer Martin	Northeast Natural Energy, LLC	12.5% Royalty or More	1503	659
	WV-061-000682-047	Peter Eves	Northeast Natural Energy, LLC	12.5% Royalty or More	1505	151
	WV-061-000682-046	Tonya Billingsley	Northeast Natural Energy, LLC	12.5% Royalty or More	1505	137
	WV-061-000682-048	Gary Eves	Northeast Natural Energy, LLC	12.5% Royalty or More	1505	183
	WV-061-000682-052	Paul H. Gensko	Northeast Natural Energy, LLC	12.5% Royalty or More	1512	515
	WV-061-000682-043	John F. Gensko	Northeast Natural Energy, LLC	12.5% Royalty or More	1511	548
	WV-061-000682-045	Mary Morris	Northeast Natural Energy, LLC	12.5% Royalty or More	1504	758
	WV-061-000682-040	Lawrence Morris	Northeast Natural Energy, LLC	12.5% Royalty or More	1505	525
	WV-061-000682-044	Sandra J. Swartz	Northeast Natural Energy, LLC	12.5% Royalty or More	1509	769
	WV-061-000682-041	Thomas Andrew Morris	Northeast Natural Energy, LLC	12.5% Royalty or More	1506	431
	WV-061-000682-049	Clarence Joseph Womer, Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1510	76
	WV-061-000682-025	Karen Markle	Northeast Natural Energy, LLC	12.5% Royalty or More	1460	125
	WV-061-000582-035	Carol Broadhurst	Northeast Natural Energy, LLC	12.5% Royalty or More	1503	794
	WV-061-000682-037	Mildred Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1503	792
	WV-061-000682-042	Daniel J. Taub, Sr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1505	147
	WV-061-000682-014	Charles H. Morris	Northeast Natural Energy, LLC	12.5% Royalty or More	1453	221
	WV-061-000682-019	Robert A. Morris	Northeast Natural Energy, LLC	12.5% Royalty or More	1456	50
	WV-061-000682-010	Esther L. Morris	Northeast Natural Energy, LLC	12.5% Royalty or More	1450	457
	WV-061-000682-011	Dorothy L. Kollar	Northeast Natural Energy, LLC	12.5% Royalty or More	1450	465
	WV-061-000682-053	Roger E. Goldthwaite	Northeast Natural Energy, LLC	12.5% Royalty or More	1511	769
	WV-061-000682-035	Gordon J. Goldthwaite	Northeast Natural Energy, LLC	12.5% Royalty or More	1503	661
	WV-061-000582-035	Janet Spark	Northeast Natural Energy, LLC	12.5% Royalty or More	1502	540
	WV-061-000582-034	Charles M. Spark	Northeast Natural Energy, LLC	12.5% Royalty or More	1510	710
	WV-061-000582-021	Pamela Ruth Spark Natino	Northeast Natural Energy, LLC	12.5% Royalty or More	1458	710
E	WV-061-001043-002	Yost Heritage, Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	1512	513
F	WV-061-000173-065	Thomas Sollars	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	540
	WV-061-000173-058	Tammara L. Mardecki	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	260
	WV-061-000173-059	Eugene Herrmann Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	262
	WV-061-000173-054	Paul J. Herrmann Sr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	37
	WV-061-000173-055	Linda D. Herrmann	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	39
	WV-061-000173-063	Maryjean Herrmann	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	270
	WV-061-000173-064	Rodana D. Gorman	Northeast Natural Energy, LLC	12.5% Royalty or More	1675	169
	WV-061-000173-057	Kathy B. Chesney	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	258
	WV-061-000173-053	Lori Linda Mendicino	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	35
	WV-061-000173-056	Thomas L. Austin	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	41
	WV-061-000173-060	Brice S. Blissett	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	264
	WV-061-000173-061	Shari L. Rush	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	266
	WV-061-000173-062	Seth Rush	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	268
	WV-061-000173-049	Shelly D. Henkins	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	733
	WV-061-000173-050	Randy A. Dean	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	735
	WV-061-000173-048	Kerintosh William Dean	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	731
	WV-061-000173-004	Judith Ann Munkittrick	Northeast Natural Energy, LLC	12.5% Royalty or More	1711	553
	WV-061-000173-002	Walter Kevin Huffman	Northeast Natural Energy, LLC	12.5% Royalty or More	1712	776
	WV-061-000173-019	Patricia A. Salvatore	Northeast Natural Energy, LLC	12.5% Royalty or More	1543	631
	WV-061-000173-019	Deborah M. Murray	Northeast Natural Energy, LLC	12.5% Royalty or More	1543	631
	WV-061-000173-066	David Wayne Barr	Northeast Natural Energy, LLC	12.5% Royalty or More	1691	723
	WV-061-000173-046	Connie C. Sutton	Northeast Natural Energy, LLC	12.5% Royalty or More	1589	245
	WV-061-000173-045	Donna C. Miller	Northeast Natural Energy, LLC	12.5% Royalty or More	1586	514
	WV-061-000173-041	Zachary L. Mason	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	283
	WV-061-000173-042	Gregory C. Mason	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	202

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	WV-061-004286-002	Debra Lynn Frazier	Northeast Natural Energy, LLC	12.5% Royalty or More	1571	637
	WV-061-004286-001	Terrance Walter Mason	Northeast Natural Energy, LLC	12.5% Royalty or More	1571	635
G	WV-061-004923-001	Fortune Development, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1618	344
	WV-061-003492-001	MM-Marcellus II, LP	Northeast Natural Energy, LLC	12.5% Royalty or More	1684	93
	WV-061-004640-001	James E. Thorne II	Northeast Natural Energy, LLC	12.5% Royalty or More	1598	609
	WV-061-004640-001	Ryan Neal Thorne	Northeast Natural Energy, LLC	12.5% Royalty or More	1598	609
	WV-061-004621-001	Westhawk Minerals LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	73
H	WV-061-000173-065	Thomas Sollars	Northeast Natural Energy, LLC	12.5% Royalty or More	1683	540
	WV-061-000173-058	Tammara L. Mordecki	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	260
	WV-061-000173-059	Eugene Herrmann Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	261
	WV-061-000173-054	Paul J. Herrmann Sr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	37
	WV-061-000173-055	Linda D. Herrmann	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	39
	WV-061-000173-063	Maryjean Herrmann	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	270
	WV-061-000173-064	Rodana D. Gorman	Northeast Natural Energy, LLC	12.5% Royalty or More	1675	169
	WV-061-000173-057	Kathy B. Chesney	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	258
	WV-061-000173-053	Lori Linda Mendiola	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	35
	WV-061-000173-056	Thomas L. Austin	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	41
	WV-061-000173-060	Brice S. Bissett	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	264
	WV-061-000173-061	Shari L. Rush	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	266
	WV-061-000173-062	Seth Rush	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	268
	WV-061-000173-049	Shelly D. Henkens	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	733
	WV-061-000173-050	Randy A. Dean	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	735
	WV-061-000173-048	Kenneth William Dean	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	731
	WV-061-000173-004	Judith Ann Munkittrick	Northeast Natural Energy, LLC	12.5% Royalty or More	1711	553
	WV-061-000173-002	Walter Kevin Huffman	Northeast Natural Energy, LLC	12.5% Royalty or More	1712	776
	WV-061-000173-015	Patricia A. Salvatore	Northeast Natural Energy, LLC	12.5% Royalty or More	1543	631
	WV-061-000173-019	Deborah M. Murray	Northeast Natural Energy, LLC	12.5% Royalty or More	1543	631
	WV-061-000173-066	David Wayne Barr	Northeast Natural Energy, LLC	12.5% Royalty or More	1691	723
	WV-061-000173-046	Gennie C. Sutton	Northeast Natural Energy, LLC	12.5% Royalty or More	1589	245
	WV-061-000173-045	Donna C. Miller	Northeast Natural Energy, LLC	12.5% Royalty or More	1586	514
	WV-061-000173-041	Zachary L. Mason	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	283
	WV-061-000173-042	Gregory C. Mason	Northeast Natural Energy, LLC	12.5% Royalty or More	1566	202
	WV-061-004286-002	Debra Lynn Frazier	Northeast Natural Energy, LLC	12.5% Royalty or More	1571	637
	WV-061-004286-001	Terrance Walter Mason	Northeast Natural Energy, LLC	12.5% Royalty or More	1571	635
I	WV-061-002303-006	Cynthia Sue Eddy Phillips	Northeast Natural Energy, LLC	12.5% Royalty or More	1612	803
	WV-061-002303-117	Jessica Rink	Northeast Natural Energy, LLC	12.5% Royalty or More	1678	277
	WV-061-002303-116	Lisa S. Kuchta	Northeast Natural Energy, LLC	12.5% Royalty or More	1678	275
	WV-061-002303-118	Christina F. Rink	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	242
	WV-061-002303-122	Robert John Owen	Northeast Natural Energy, LLC	12.5% Royalty or More	1699	405
	WV-061-002303-109	Sandra L. Barker Hemphill	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	53
	WV-061-002303-099	Shirli Ann Barker Beeson	Northeast Natural Energy, LLC	12.5% Royalty or More	1641	302
	WV-061-002303-112	Merle Lee Hawkins	Northeast Natural Energy, LLC	12.5% Royalty or More	1673	274
	WV-061-002303-074	Joan Patty Eddy Sharp	Northeast Natural Energy, LLC	12.5% Royalty or More	1623	515
	WV-061-002303-057	Betty Lou Eddy	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	477
	WV-061-002303-077	Mary Josephine Eddy	Northeast Natural Energy, LLC	12.5% Royalty or More	1629	114
	WV-061-002303-070	Robert Wayne Eddy	Northeast Natural Energy, LLC	12.5% Royalty or More	1623	403
	WV-061-002303-029	Leila Catherine Eddy	Northeast Natural Energy, LLC	12.5% Royalty or More	1616	216
	WV-061-002303-008	Nancy Louise Stinnett	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	403
	WV-061-002303-007	Mary Leigh Cox	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	401
	WV-061-002303-026	Eric Keith Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	835
	WV-061-002303-024	Nick Alan Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	831
	WV-061-002303-071	Hattie Melvena Lyons	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	849
	WV-061-002303-065	Richard T. Fair	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	493
	WV-061-002303-023	Charles Thomas Fair	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	787
	WV-061-002303-025	Allen Keith Fair	Northeast Natural Energy, LLC	12.5% Royalty or More	1617	721
	WV-061-002303-012	Dayle Keith McDermitt	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	411
	WV-061-002303-005	Mary Margaret Field	Northeast Natural Energy, LLC	12.5% Royalty or More	1612	801
	WV-061-002303-009	John R. Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	405
	WV-061-002303-027	Kenneth Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1617	723
	WV-061-002303-015	Don Carlos Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	473
	WV-061-002303-013	Byron Oliver Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	413
	WV-061-002303-014	Beulah L. Rusk	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	416
	WV-061-002303-120	Richard A. Arnold	Northeast Natural Energy, LLC	12.5% Royalty or More	1687	97
	WV-061-002303-121	Lawrence D. Arnold	Northeast Natural Energy, LLC	12.5% Royalty or More	1686	98
	WV-061-002303-021	Kenneth LePage	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	747
	WV-061-002303-002	MM-Marcellus II, LP	Northeast Natural Energy, LLC	12.5% Royalty or More	1684	92
	WV-061-004640-001	James E. Thorne II	Northeast Natural Energy, LLC	12.5% Royalty or More	1598	609
	WV-061-004640-001	Ryan Neal Thorne	Northeast Natural Energy, LLC	12.5% Royalty or More	1598	609

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	WV-061-002303-113	WV Minerals Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	1679	240
	WV-061-002303-019	Karen Diane Hager	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	743
	WV-061-002303-018	Priscilla Doreen Cobello	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	741
	WV-061-002303-110	Lisa Marie Crabtree	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	94
	WV-061-002303-108	Christy Lynn Montilus	Northeast Natural Energy, LLC	12.5% Royalty or More	1670	51
	WV-061-002303-050	Nancy M. LaGrande	Northeast Natural Energy, LLC	12.5% Royalty or More	1617	731
	WV-061-002303-078	Jane Ann Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	378
	WV-061-002303-020	Barbara Ann Wilcox McCullough	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	745
	WV-061-002303-089	Heather M. Lannen	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	761
	WV-061-002303-088	John Vernon Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	141
	WV-061-002303-090	Johnny Eugene Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	42
	WV-061-002303-095	Melvin Carl Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1638	476
	WV-061-002303-094	Linda Mangum Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	573
	WV-061-002303-093	Martha Peters	Northeast Natural Energy, LLC	12.5% Royalty or More	1638	782
	WV-061-002303-037	Betty L. Walls Vandella	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	751
	WV-061-002303-036	Ronald D. Walls	Northeast Natural Energy, LLC	12.5% Royalty or More	1616	126
	WV-061-002303-035	Connie S. Wolfe	Northeast Natural Energy, LLC	12.5% Royalty or More	1616	124
	WV-061-002303-079	Donna Luketic	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	380
	WV-061-002303-086	Teri Ann Marratta	Northeast Natural Energy, LLC	12.5% Royalty or More	1633	346
	WV-061-002303-085	Timothy Alan Walls	Northeast Natural Energy, LLC	12.5% Royalty or More	1638	472
	WV-061-002303-038	Marilesa Walls Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1617	727
	WV-061-002303-092	Denzil C. Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1638	778
	WV-061-002303-062	Sarah Kathryn Riggi	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	487
	WV-061-002303-091	Joyce E. Walls	Northeast Natural Energy, LLC	12.5% Royalty or More	1638	474
	WV-061-002303-119	Robert D. Gump Jr.	Northeast Natural Energy, LLC	12.5% Royalty or More	1681	679
	WV-061-002303-028	Wilma G. Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1616	108
	WV-061-002303-034	Patricia A. Tennant Shewmaker	Northeast Natural Energy, LLC	12.5% Royalty or More	1616	122
	WV-061-002303-030	Clifford Earl Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1616	118
	WV-061-002303-031	David Blair Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1616	120
	WV-061-002303-061	Judith Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	485
	WV-061-002303-066	Staci R. Miller	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	495
	WV-061-002303-059	James J. Miller	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	481
	WV-061-002303-064	Kathy Brown	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	491
	WV-061-002303-063	Sarah Beth Hensley	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	489
	WV-061-002303-051	Sheila Anderson-Freeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1620	467
	WV-061-002303-058	Brigitte Marie Weaver	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	479
	WV-061-002303-082	Steven Richard Freeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	203
	WV-061-002303-052	Chantal Kay Freeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1617	735
	WV-061-002303-060	Gary W. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1622	483
J	WV-061-004923-003	Fortune Development, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1613	344
	WV-061-003402-001	MM-Marcellus II, LP	Northeast Natural Energy, LLC	12.5% Royalty or More	1684	93
	WV-061-004640-001	James E. Thorne II	Northeast Natural Energy, LLC	12.5% Royalty or More	1598	609
	WV-061-004640-001	Ryan Neal Thorne	Northeast Natural Energy, LLC	12.5% Royalty or More	1598	609
	WV-061-004621-001	Westhawk Minerals LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1595	73
K	WV-061-005854-001	EQT	Northeast Natural Energy, LLC	12.5% Royalty or More	1764	14
L	WV-061-005853-001	Shuman Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	148	400
M	WV-061-005853-001	Shuman Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	148	400
N	WV-061-005853-001	Shuman Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	148	400
O	WV-061-005853-001	Shuman Inc.	Northeast Natural Energy, LLC	12.5% Royalty or More	148	400
P	WV-061-005851-001	Helen M. Burton	Northeast Natural Energy, LLC	12.5% Royalty or More	1764	12
Q	WV-049-004080-001	Margaret Barr Couch	Northeast Natural Energy, LLC	12.5% Royalty or More	1709	291
	WV-049-004080-002	Candice R. Southard	Northeast Natural Energy, LLC	12.5% Royalty or More	1709	289
	WV-049-004080-003	Mary Gail Vinson	Northeast Natural Energy, LLC	12.5% Royalty or More	1709	287

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Permit Modification

Received date: 3/1/22

Well Name: 6H

Operator: NNE

API: 61-01894

Pad Name: Yost

	MODIFIED PERMIT	ORIGINAL PERMIT
TVD	8290 ✓	8280 ✓
TMD	21398 ✓	14010 *
HL	12428	5040 *
FW	1378	1378 ✓
SW	2410	2410 ✓
COAL	320, 712	320' 712
CONDUCTOR	100	100 ✓
FRESHWATER	1490	1490 ✓
INTERMEDIATE 1	2660	2660 ✓
INTERMEDIATE 2		
PRODUCTION	21398	14010 ✓

Notes: A-I are original permit

A 1043-002 ✓	J 4923-003 ✓	Q 4080-001 ✓
B 1043-002 ✓	K 5854-001 ✓	
E 1043-002 ✓	L 5853-001 ✓	
F 173-065 ✓	M 5853-001 ✓	
H 173-065 ✓	N 5853-001 ✓	
G 4923-001 ✓	O 5853-001 ✓	
I 2303-006 ✓	P 5851-001 ✓	



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Modifications Horizontal H6A Well Work Permit API: 47-061-01892, 01893, 01894, 01895, & 01896)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Mar 16, 2022 at 8:24 AM

To: Hollie Medley <hmedley@nne-llc.com>, Kristen Brooks <kbrooks@nne-llc.com>, Mark Musick <mmusick@assessor.org>, "Greynolds, Kenneth L" <kenneth.l.greynolds@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-061-01892 - 2H
47-061-01893 - 4H
47-061-01894 - 6H
47-061-01895 - 10H
47-061-01896 - 14H - Non-Expedited

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

5 attachments

-  **47-061-01892 - mod.pdf**
1761K
-  **47-061-01893 - mod.pdf**
1730K
-  **47-061-01894 - mod.pdf**
1922K
-  **47-061-01895 - mod.pdf**
1980K
-  **47-061-01896 - mod.pdf**
2105K