

6,891' to Top Hole

11,609' to Bottom Hole

39° 52' 30"

3,408' to Bottom Hole
80° 45' 00"

9,186' to Top Hole

WELL: MND1 LHS Coordinates

WV SPC North (NAD 27)
SURFACE LOCATION
N - 494,151.8
E - 1,642,158.8

LANDING POINT
N - 494,505.6
E - 1,641,372.0

BOTTOM HOLE
N - 500,006.7
E - 1,637,520.1

UTM NAD 83 (mtr)
SURFACE LOCATION
N - 4,411,117.1
E - 519,302.9

BOTTOM HOLE
N - 4,412,874.1
E - 517,859.9

LAT/LONG (NAD 83)
SURFACE LOCATION
39.849854°
80.774358°

BOTTOM HOLE
39.865717°
80.791178°

Powhatan Point, OH

MND1 LHS Bottom Hole

See Detail 1

OHIO
W.VA.

OHIO

Bottom Hole 7.5' Spot

Top Hole 7.5' Spot

(SIGNED) *Timothy P. Roush*
TIMOTHY P. ROUSH PS 793

NOTES ON SURVEY

- No water supply wells or developed springs are located within 1,500' of proposed well
- No occupied dwellings or buildings 2500 sq. ft. or larger are located within 825' of proposed well.
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- Lease Boundaries shown hereon are located as described in the provided Certified Title Opinions.

LEGEND

- ① Surface Parcel No.
- ② Lease Reference No.
- - - Lease Boundary
- - - Surface Boundary
- - - Proposed Horizontal Lateral
- - - Proposed Curve Section
- - - Stream



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+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. _____
 SCALE: **1" = 1,500'**
 MINIMUM DEGREE OF ACCURACY: **Sub-Meter**
 PROVEN SOURCE OF ELEVATION: **DGPS Survey**



WEST VIRGINIA
 Department of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25301

DATE **October 19, 2021**
 WELL NAME **MND1 LHS**
 API WELL NO. **47 - 051 - 01833 MOD**
 State County **RECEIVED**
 Office of Oil and Gas

OCT 29 2021

WV Dept. of Environmental Protection

11/12/2021

WELL TYPE: OIL ___ GAS **X** LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS") PRODUCTION **X** STORAGE ___ DEEP ___ SHALLOW **X**

LOCATION: ELEVATION **1,150'** WATERSHED **Hog Run - Ohio River**
 DISTRICT: **Clay** COUNTY: **Marshall** QUADRANGLE: **Powhatan Point 7.5'**
 SURFACE OWNER: **Marshall County Coal Resources, Inc.** ACREAGE: **128.32 Ac.**

OIL & GAS ROYALTY OWNER: **HG Energy II Appalachia, LLC** LEASE ACREAGE: **128.32 Ac.** LEASE NO. _____
 PROPOSED WORK: DRILL **X** CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE **X** PLUG OFF OLD FORMATION ___
 PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) **MOD Plat - Revised BHL and TVD**
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ TARGET FORMATION **Marcellus Shale** ESTIMATED DEPTH **6,290' TVD**
13,443' TMD

WELL OPERATOR: **HG Energy II Appalachia, LLC**
 ADDRESS: **5260 DuPont Road Parkersburg, WV 26101**

DESIGNATED AGENT: **Diane White**
 ADDRESS: **5260 DuPont Road Parkersburg, WV 26101**

WELL: MND1 LHS Coordinates

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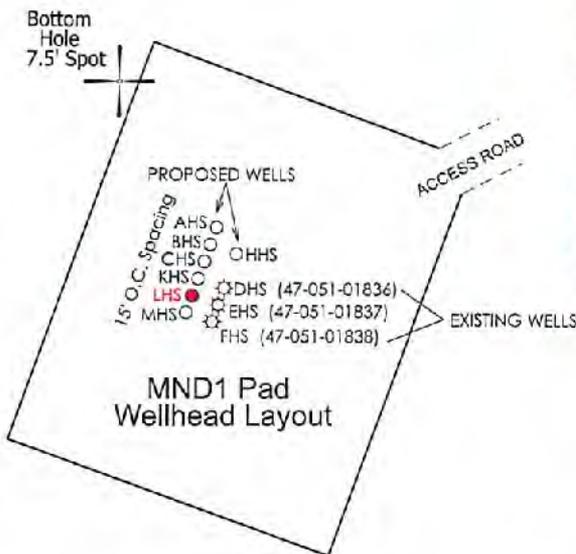
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11,609' to Bottom Hole

6,891' to Top Hole

39° 52' 30"

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30	CSX TRANSPORTATION, INC.	NA
31	WV DIVISION OF NATURAL RESOURCES	OHIO RIVER

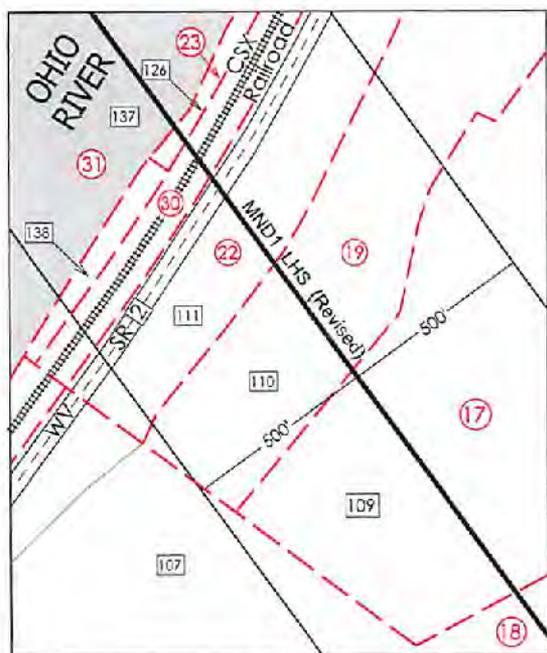
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137	WV Division of Natural Resources	-
138	Sandy Davis	TMP 04-07-15.04

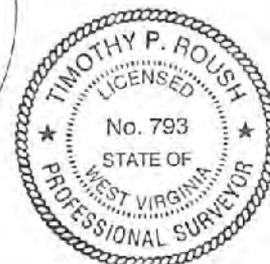
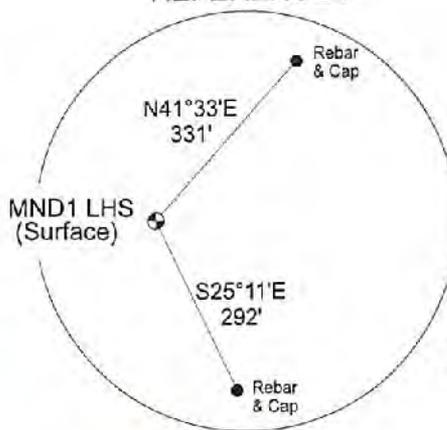
North



DETAIL 1
Scale: 1"=500'

Top Hole
7.5' Spot

WELL REFERENCES



(SIGNED)

Timothy P. Roush

TIMOTHY P. ROUSH PS 793

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WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF 'GAS') PRODUCTION STORAGE DEEP SHALLOW

11/12/2021

LOCATION: ELEVATION 1,150' WATERSHED Hog Run - Ohio River
 DISTRICT: Clay COUNTY: Marshall QUADRANGLE: Powhatan Point 7.5'
 SURFACE OWNER: Marshall County Coal Resources, Inc. ACREAGE: 128.32 Ac.

OIL & GAS ROYALTY OWNER: HG Energy II Appalachia, LLC LEASE ACREAGE: 128.32 Ac. LEASE NO. _____

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13,443' TMD

WELL OPERATOR: HG Energy II Appalachia, LLC
 ADDRESS: 5260 DuPont Road Parkersburg, WV 26101

DESIGNATED AGENT: Diane White
 ADDRESS: 5260 DuPont Road Parkersburg, WV 26101

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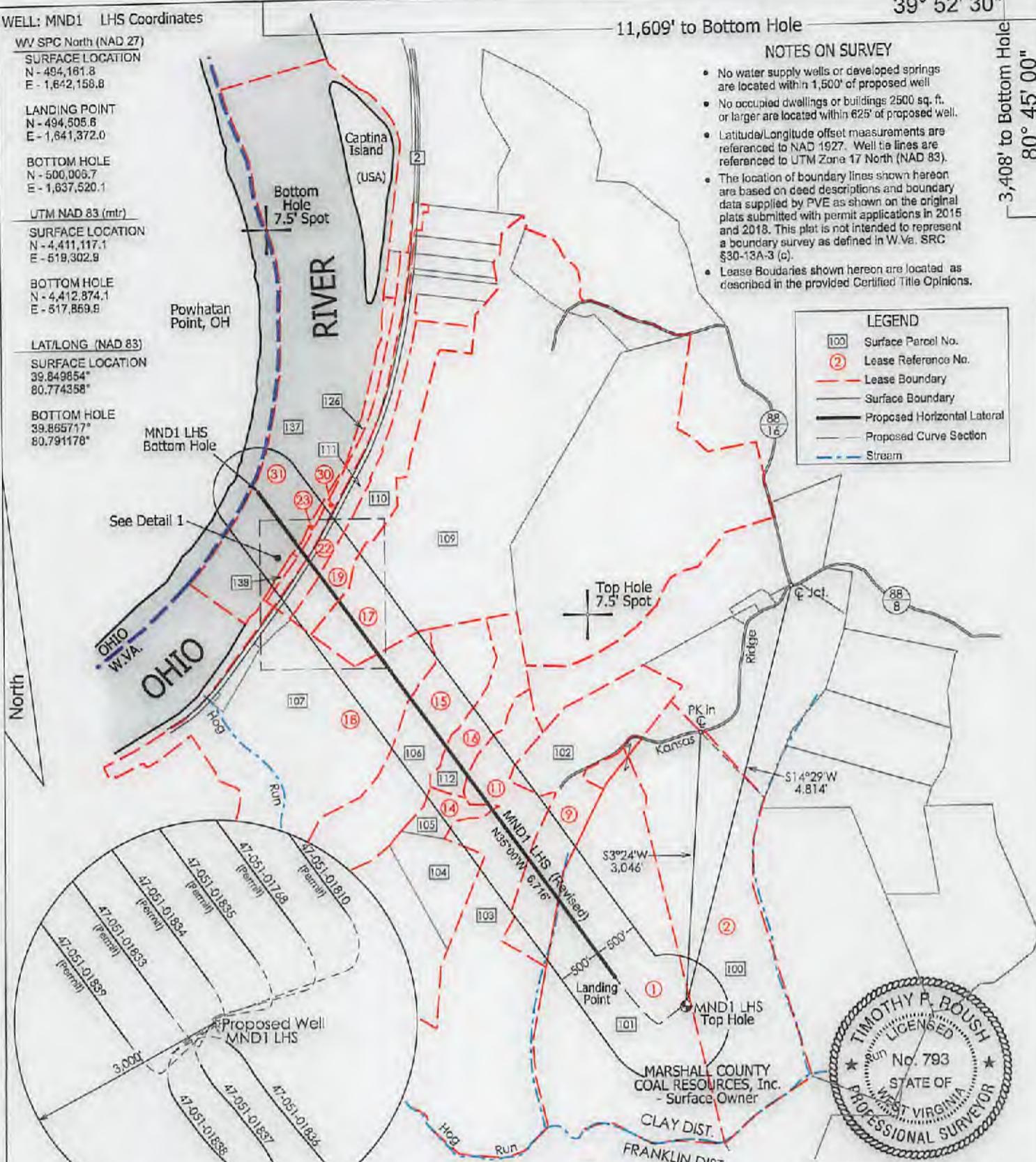
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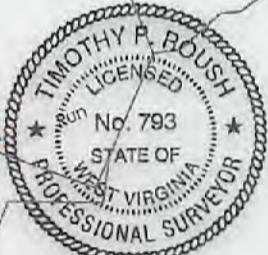
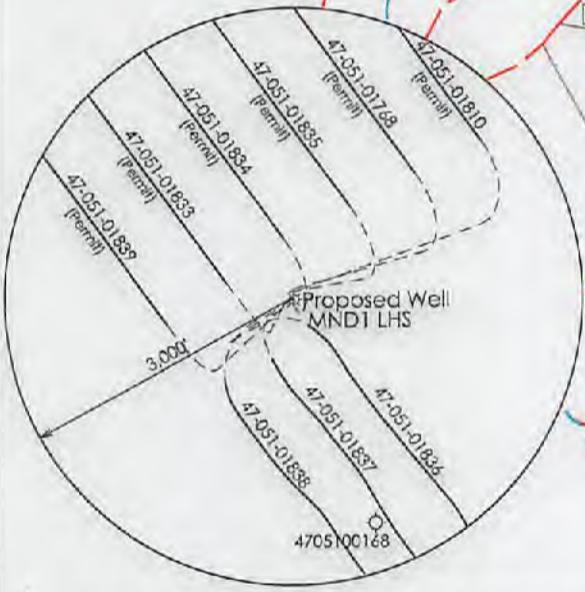
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North



See Detail 1

Top Hole 7.5' Spot



(SIGNED) *[Signature]*
TIMOTHY P. ROUSH PS 793

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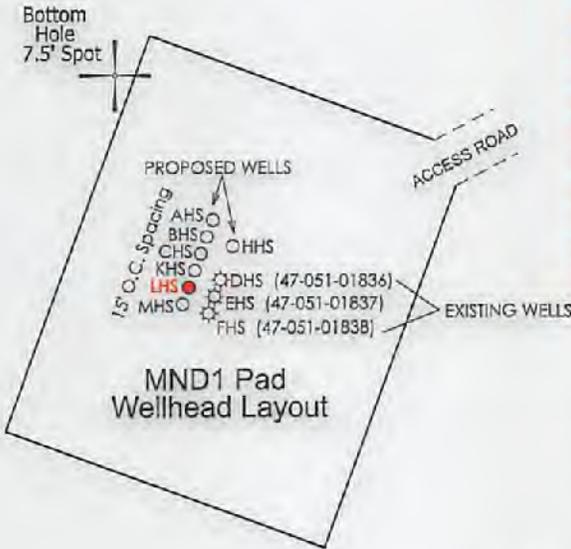
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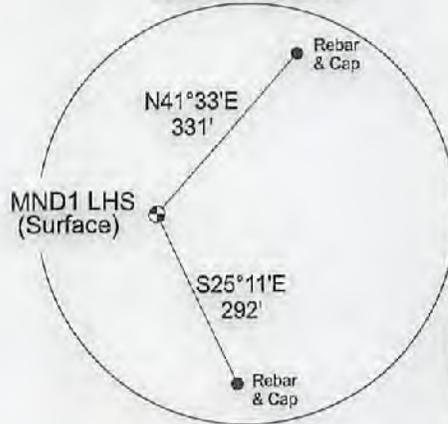
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DETAIL 1
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Top Hole
7.5' Spot

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