

6,875' to Top Hole

39° 52' 30"

WELL: MND1 BHS Coordinates

WV SPC North (NAD 27)

SURFACE LOCATION
N - 494,203.9
E - 1,642,174.7

LANDING POINT
N - 495,436.0
E - 1,643,468.1

BOTTOM HOLE
N - 503,724.7
E - 1,637,580.6

UTM NAD 83 (mtr)

SURFACE LOCATION
N - 4,411,130.0
E - 519,307.5

BOTTOM HOLE
N - 4,414,007.1
E - 517,859.4

LAT/LONG (NAD 83)

SURFACE LOCATION
39.849970°
80.774304°

BOTTOM HOLE
39.875925°
80.791152°

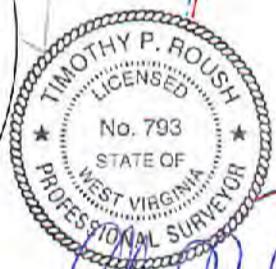
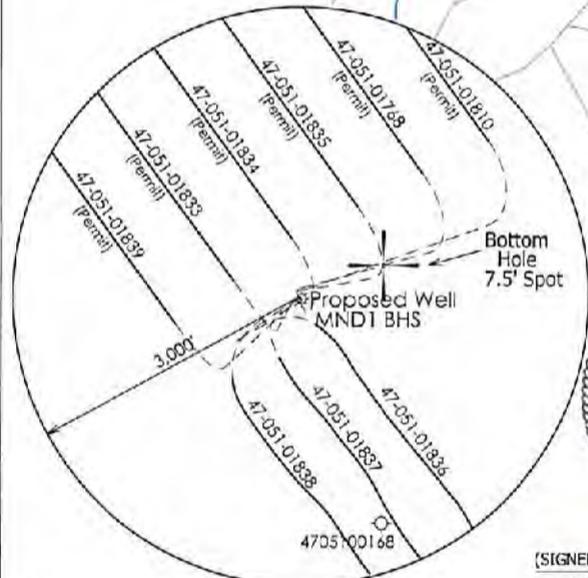
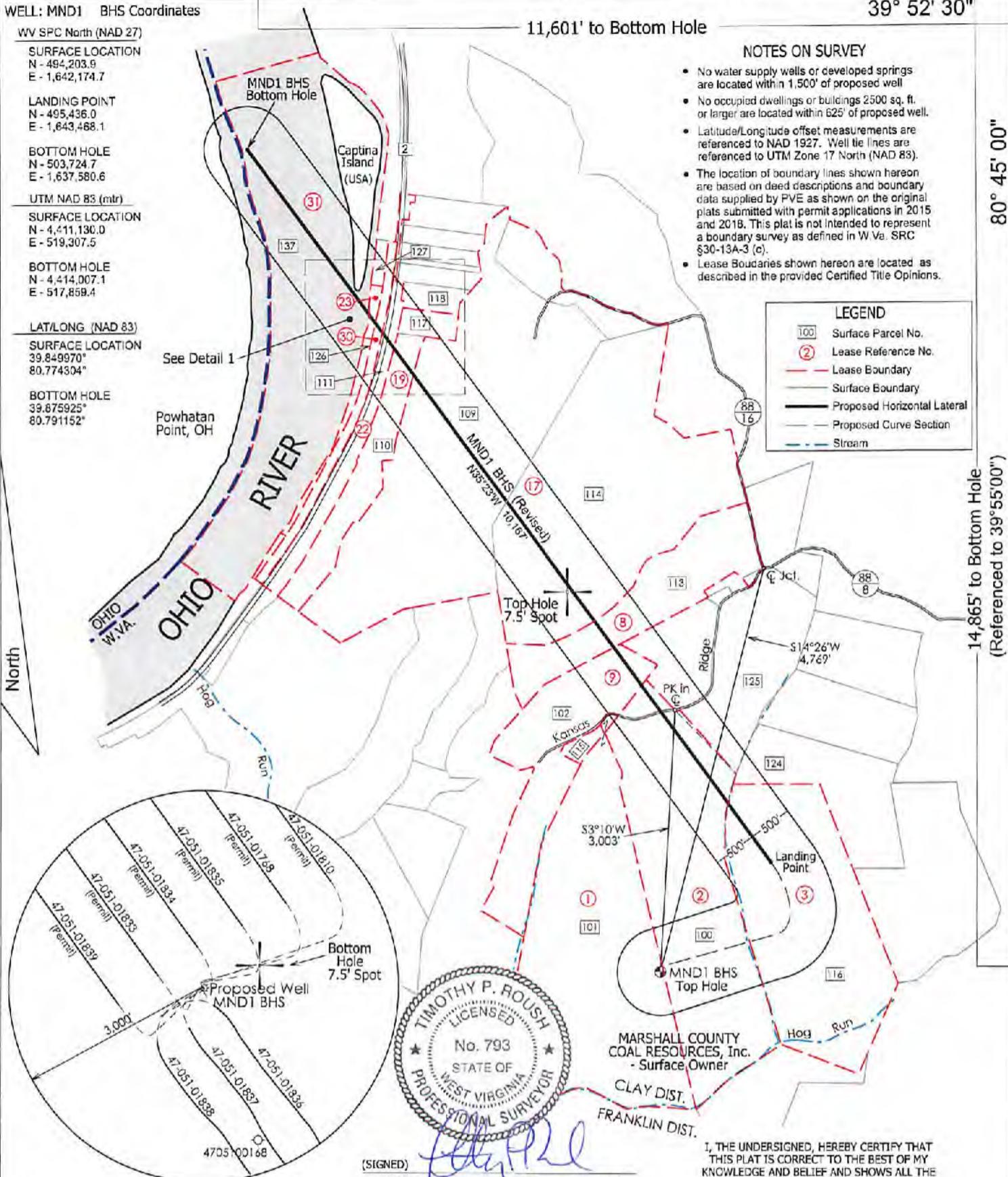
11,601' to Bottom Hole

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 625' of proposed well.
- Latitude/Longitude offset measurements are referenced to NAD 1927. Well tie lines are referenced to UTM Zone 17 North (NAD 83).
- The location of boundary lines shown hereon are based on deed descriptions and boundary data supplied by PVE as shown on the original plats submitted with permit applications in 2015 and 2018. This plat is not intended to represent a boundary survey as defined in W Va. SRC §30-13A-3 (c).
- Lease Boudaries shown hereon are located as described in the provided Certified Title Opinions.

LEGEND

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



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

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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 7, 2021**
 WELL NAME **MND1 BHS**
 API WELL NO. **47 - 051 - 01768 Mod**
 State County **RECEIVED** Permit
 Office of Oil and Gas

11/12/2021

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

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 CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE 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**
17,360' 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**

PAGE 1 OF 2

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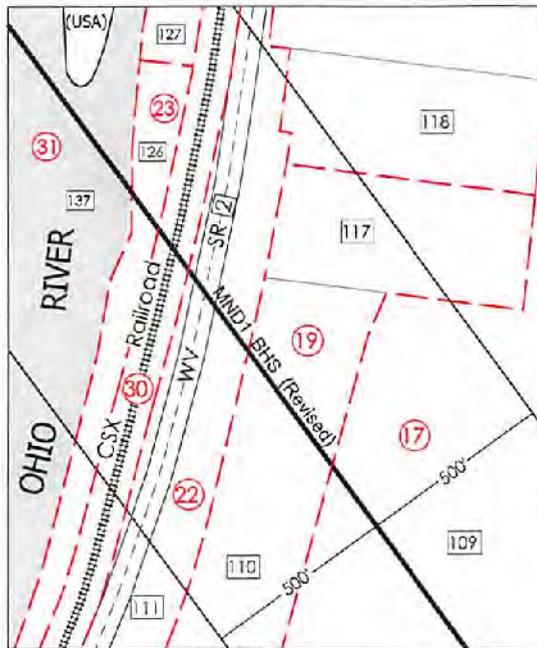
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BOTTOM HOLE
N - 4,414,007.1
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LAT/LONG (NAD 83)
SURFACE LOCATION
39.849970°
80.774304°

BOTTOM HOLE
39.875925°
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DETAIL 1
Scale: 1"=500'

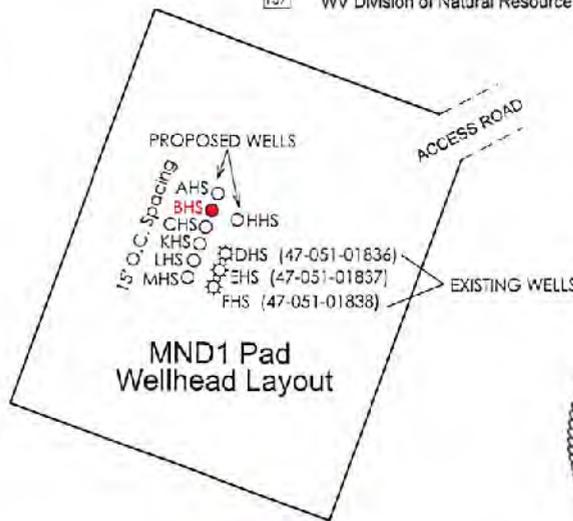
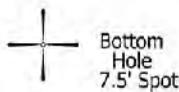
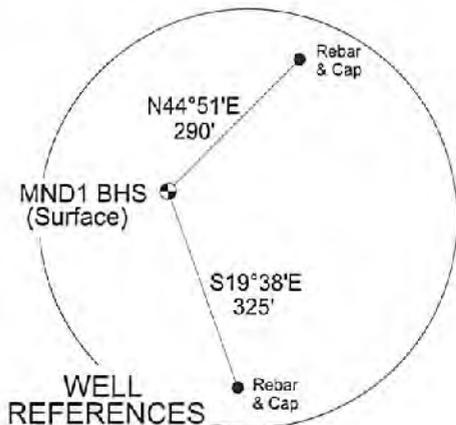
Top Hole
7.5' Spot

LEASE TABLE

1	HG ENERGY II APPALACHIA, LLC	TMP 04-14-10
2	HG ENERGY II APPALACHIA, LLC	TMP 04-14-09
3	HG ENERGY II APPALACHIA, LLC	TMP 04-14-08
8	MOUNTAINEER NATURAL GAS CO.	TMP 04-07-18
9	ROBERT E. TSCHAPPAT SR. et ux.	TMP 04-14-06
17	PAUL J. & JULIE D. MAIDENS	TMP 04-07-14; 07-17
19	NYLA J. BELL	TMP 04-07-15
22	NYLA J. BELL	TMP 04-07-16
23	JIM ARRITT et al.	TMP 04-07-15.9
30	CSX TRANSPORTATION, INC.	NA
31	WV DIVISION OF NATURAL RESOURCES	OHIO RIVER

SURFACE PARCEL TABLE

100	Marshall County Coal Resources, Inc.	TMP 04-14-09
101	Marshall County Coal Resources, Inc.	TMP 04-14-10
102	Robert E. Tschappat Sr. et ux.	TMP 04-14-06
109	Paul J. & Julie D. Maidens	TMP 04-07-14
110	W.Va. Department of Highways	TMP 04-07-15
111	State Road Commission	TMP 04-07-16
113	Carmella Faya & Michael Rose	TMP 04-07-18
114	Paul J. & Julie D. Maidens	TMP 04-07-17
115	Robert E. Tschappat Jr. et ux.	TMP 04-14-06.1
116	Marshall County Coal Resources, Inc.	TMP 04-14-08
117	W.Va. Department of Highways	TMP 04-07-15.3
118	W.Va. Department of Highways	TMP 04-07-15.2
124	Eugene C. & Elizabeth A. Estep	TMP 04-13-02
125	Wendell B. & Carolyn S. Rine	TMP 04-14-07
126	Jim Arritt et al.	TMP 04-07-15.09
127	Black Gold Group	TMP 04-07-15.06
137	WV Division of Natural Resources	



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

DATE: October 7, 2021
WELL NAME: MND1 BHS
API WELL NO.: 47-051-01768 MOD
State County Permit

RECEIVED
Office of Oil and Gas
OCT 14 2021

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

LOCATION: ELEVATION 1,150' WATERSHED Hog Run - Ohio River
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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
17,360' TMD

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

80° 45' 00"
14,865' to Bottom Hole (Referenced to 39°55'00")
9,143' to Top Hole

6,875' to Top Hole

39° 52' 30"

11,601' to Bottom Hole

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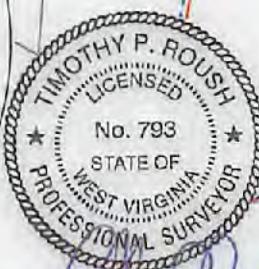
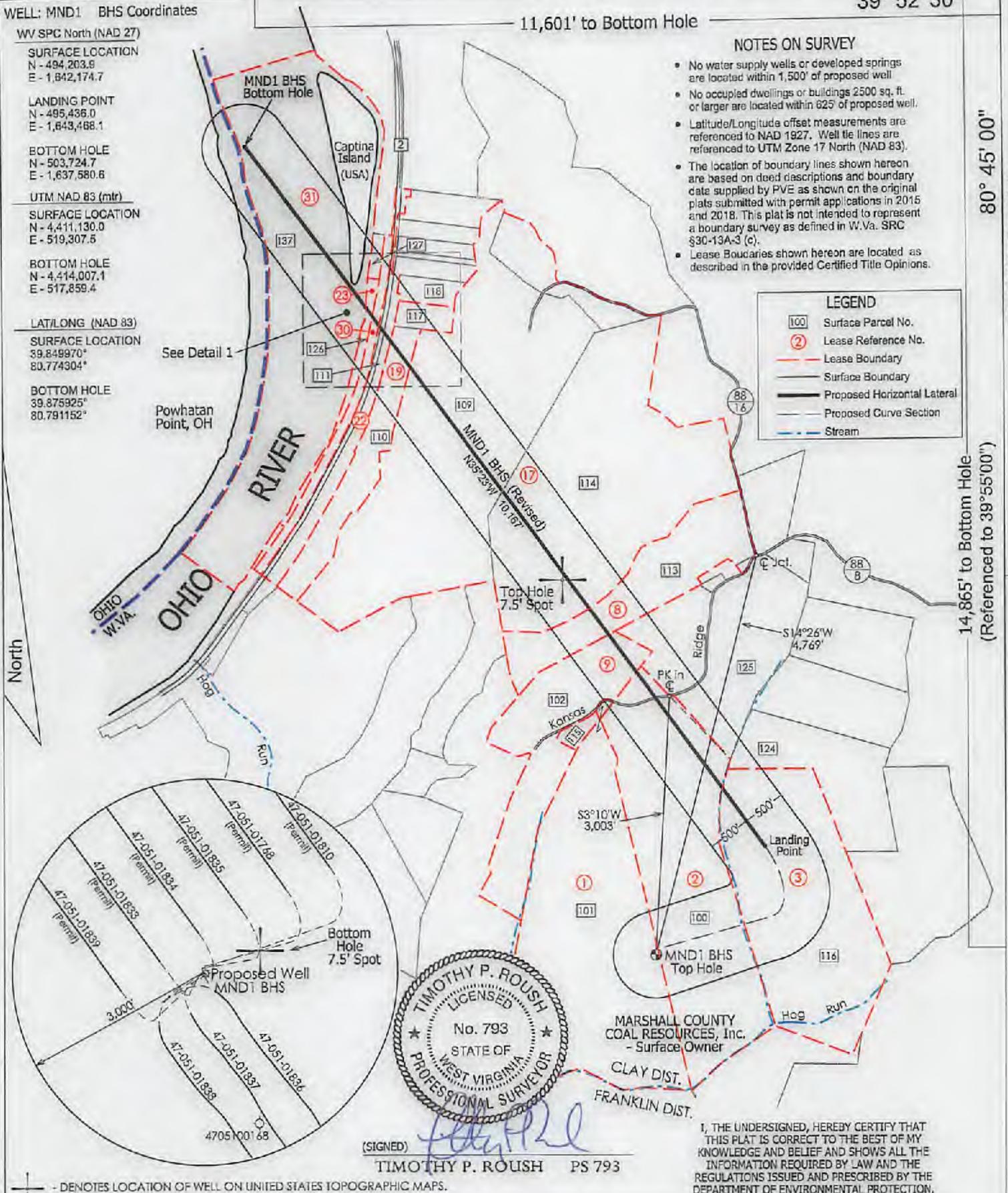
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 API WELL NO. 47 - 051 - 01768 MOD
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Parkersburg, WV 26101 Parkersburg, WV 26101 PAGE 1 OF 2

11/12/2021

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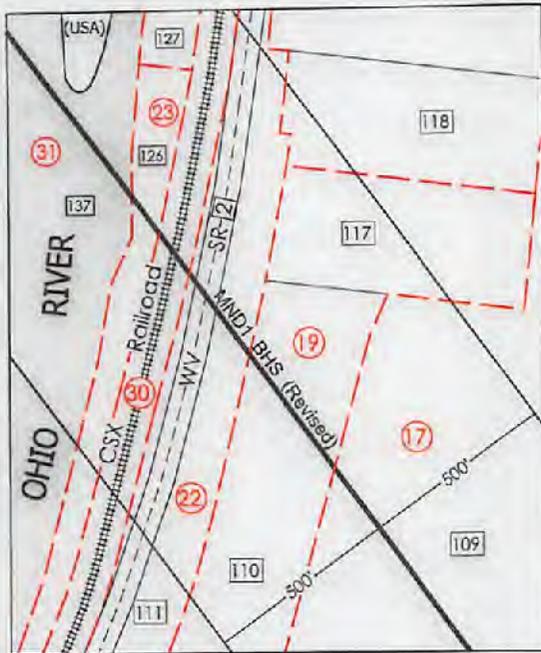
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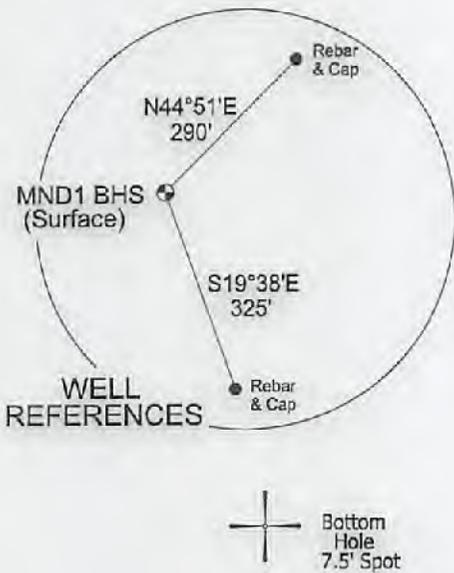
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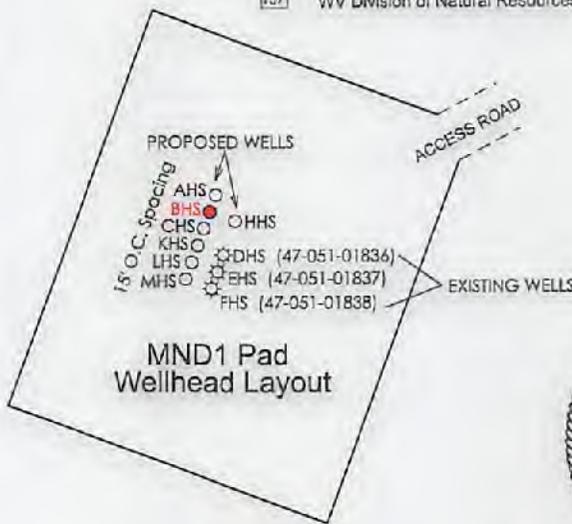
DETAIL 1
Scale: 1"=500'

Top Hole
7.5' Spot

North



Bottom Hole
7.5' Spot



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