

6,886' to Top Hole

39° 52' 30"

13,339' to Bottom Hole

2,500' to Bottom Hole
80° 45' 00"

WELL: MND1 KHS Coordinates

WV SPC North (NAD 27)

SURFACE LOCATION
N - 494,175.9
E - 1,642,164.1

LANDING POINT
N - 494,780.3
E - 1,642,095.5

BOTTOM HOLE
N - 500,911.1
E - 1,637,802.7

UTM NAD 83 (mtr)

SURFACE LOCATION
N - 4,411,121.4
E - 519,304.4

BOTTOM HOLE
N - 4,413,151.1
E - 517,941.4

LAT/LONG (NAD 83)

SURFACE LOCATION
39.849893°
80.774340°

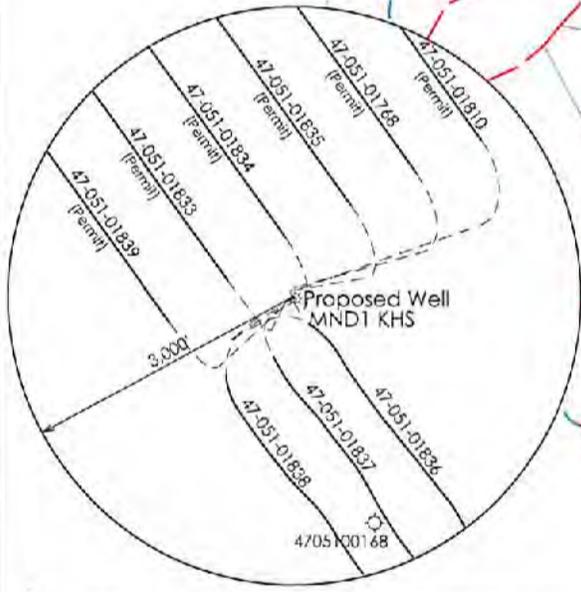
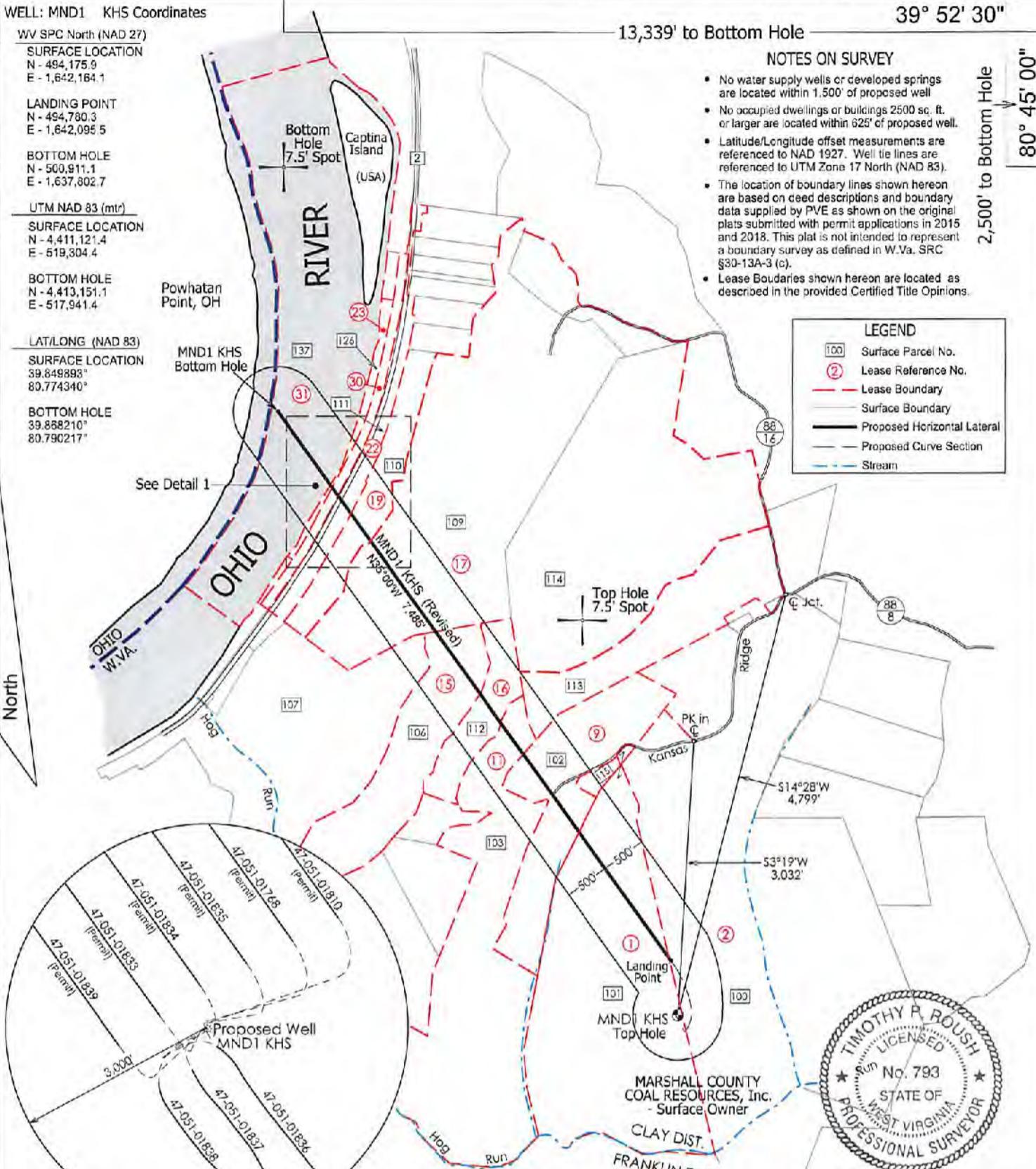
BOTTOM HOLE
39.888210°
80.790217°

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).
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- Lease Boundaries 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



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

+ 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 KHS
API WELL NO. 47-051-01834 MOD
State County Permit RECEIVED
Office of Oil and Gas

OCT 29 2021

WV Department of Environmental Protection

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. _____
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 14,271' 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

6,885' to Top Hole

13,339' to Bottom Hole

39° 52' 30"

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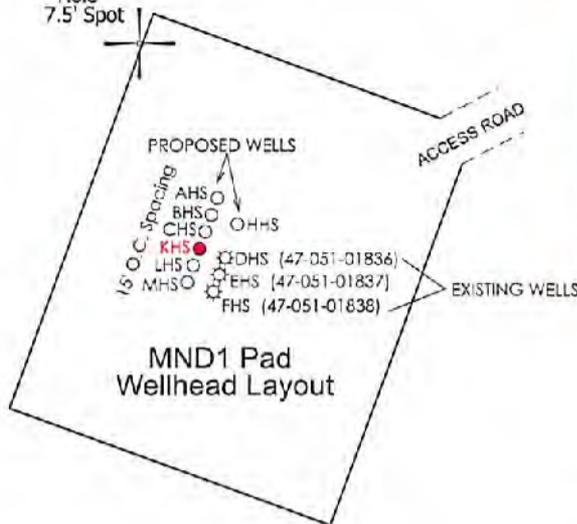
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E - 519,304.4

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N - 4,413,151.1
E - 517,941.4

LAT/LONG (NAD 83)
SURFACE LOCATION
39.849893°
80.774340°

BOTTOM HOLE
39.868210°
80.790217°

Bottom 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
⑨	ROBERT E. TSCHAPPAT SR. et ux.	TMP 04-14-06
⑪	HG ENERGY II APPALACHIA, LLC	TMP 04-14-11
⑮	HG ENERGY II APPALACHIA, LLC	TMP 04-14-03
⑰	HG ENERGY II APPALACHIA, LLC	TMP 04-14-04
⑰	PAUL J. & JULIE D. MAIDENS	TMP 04-07-14, 07-17
⑲	NYLA J. BELL	TMP 04-07-15
⑲	NYLA J. BELL	TMP 04-07-16
⑳	JIM ARRITT et al.	TMP 04-07-15.9
⑳	CSX TRANSPORTATION, INC.	NA
㉓	WV DIVISION OF NATURAL RESOURCES	OHIO RIVER

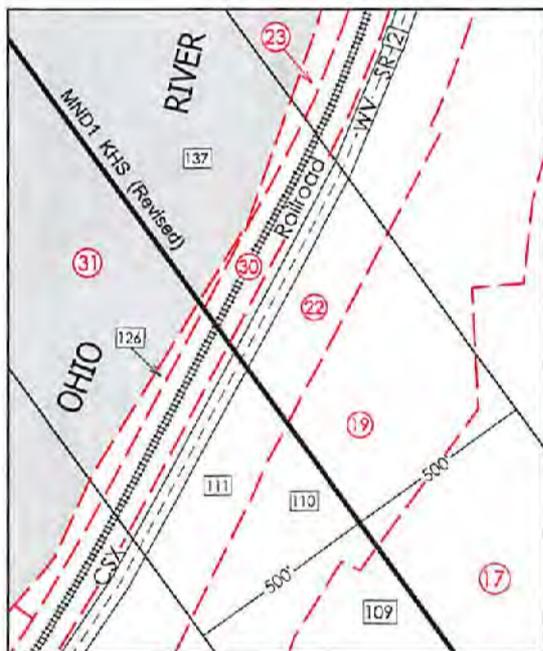
2,500' to Bottom Hole
80° 45' 00"

9,172' to Top Hole

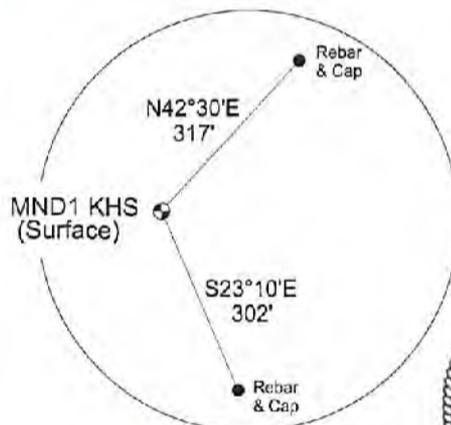
SURFACE PARCEL TABLE

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
103	Marshall County Coal Resources, Inc.	TMP 04-14-11
106	Marshall County Coal Resources, Inc.	TMP 04-14-03
107	Marshall County Coal Resources, Inc.	TMP 04-14-02
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
112	Edison A. Barlow et ux.	TMP 04-14-04
113	Carmella Faye & Michael Rose	TMP 04-07-18
114	Paul J. & Julie D. Maidens	TMP 04-07-17
126	Jim Arritt et al.	TMP 04-07-15.09
137	WV Division of Natural Resources	

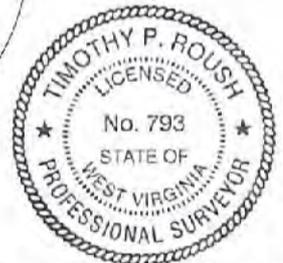
Top Hole
7.5' Spot



DETAIL 1
Scale: 1"=500'



WELL REFERENCES



(SIGNED) *[Signature]*

TIMOTHY P. ROUSH PS 793

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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 KHS
API WELL NO.: 47 - 051 - 01834 MOD

RECEIVED
Office of Oil and Gas
OCT 29 2021

WV Department of Environmental Protection

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11/12/2021

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

WELL: MND1 KHS Coordinates

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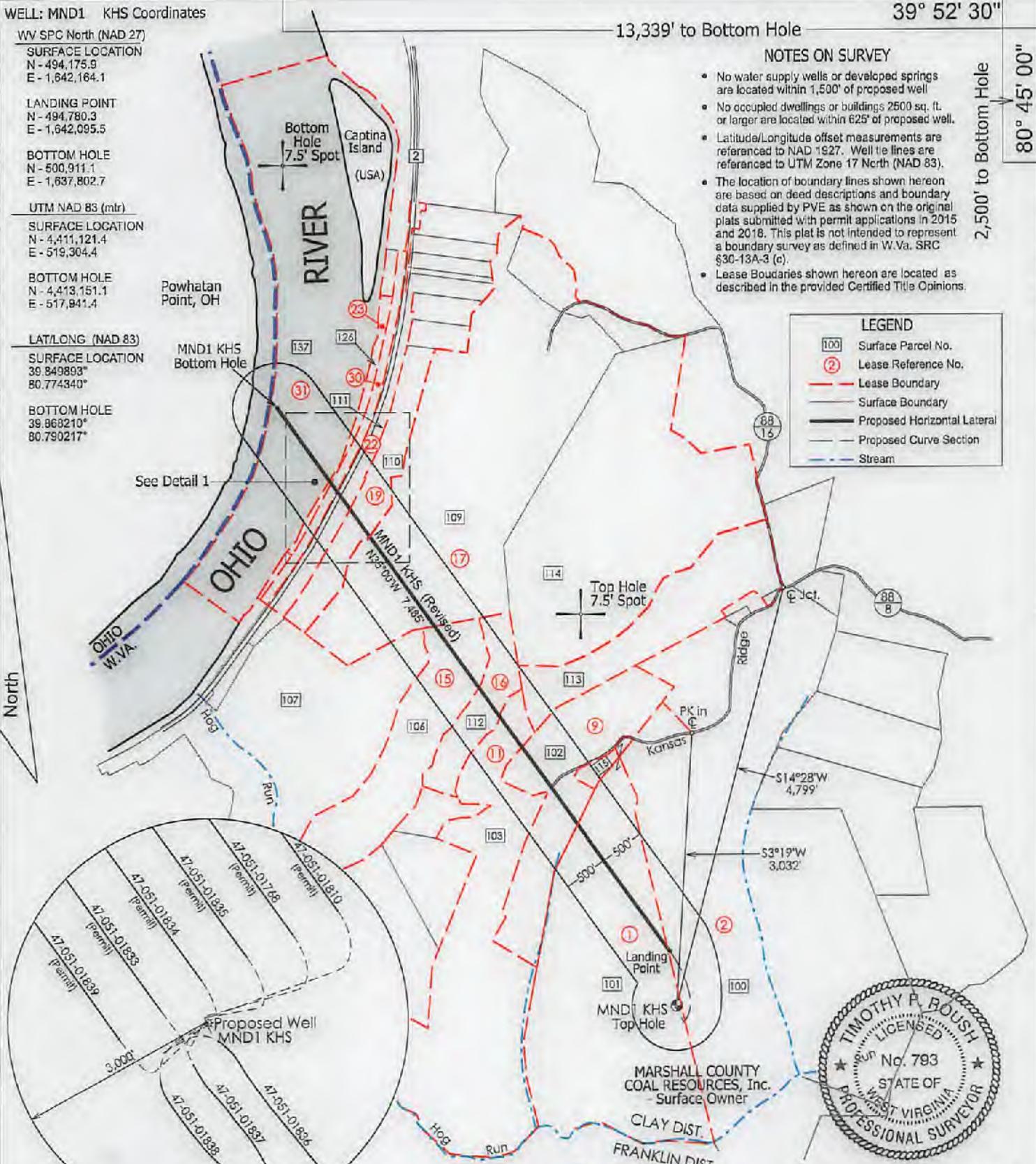
BOTTOM HOLE
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80.790217°

Powhatan Point, OH

MND1 KHS Bottom Hole

See Detail 1

North

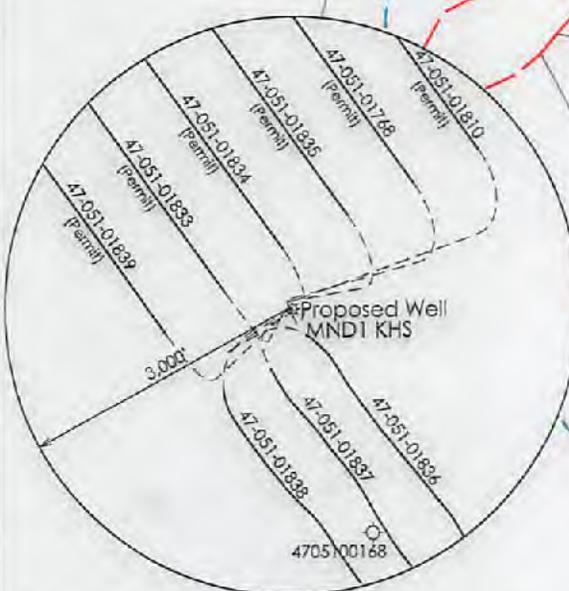


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LEGEND

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



(SIGNED) *Timothy P. Roush*
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 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25301

DATE: October 19, 2021
 WELL NAME: MND1 KHS
 API WELL NO.: 47 - 051 - 01834 MOD
 State County Permit

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 Parkersburg, WV 26101 Parkersburg, WV 26101

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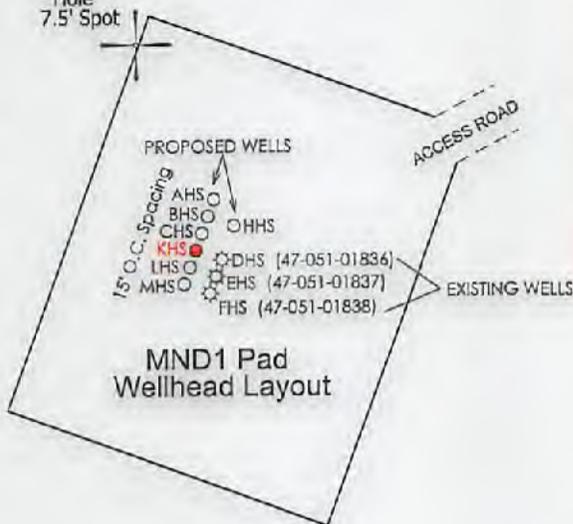
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Bottom Hole 7.5' Spot



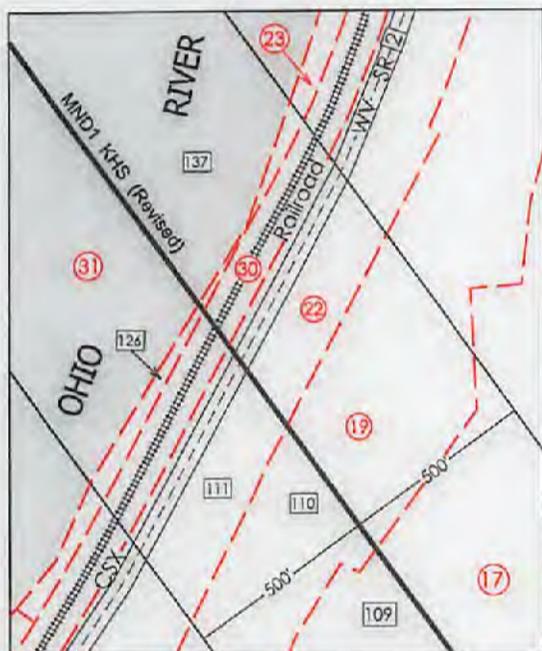
LEASE TABLE

Table with 3 columns: Lease Number, Leaseholder Name, and Term. Includes entries for HG Energy II Appalachia, LLC, Robert E. Tschappat Sr. et ux., Paul J. & Julie D. Maidens, NYLA J. Bell, Jim Arritt et al., CSX Transportation, Inc., and WV Division of Natural Resources.

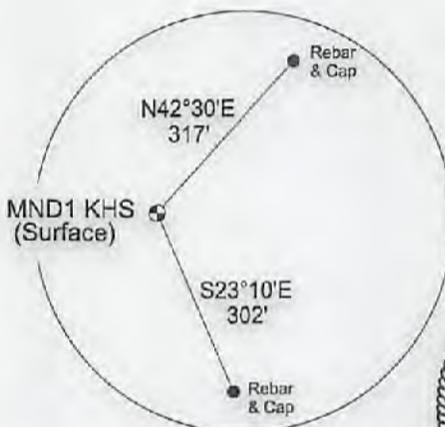
SURFACE PARCEL TABLE

Table with 3 columns: Parcel Number, Parcel Owner Name, and Term. Includes parcels 100-137 owned by Marshall County Coal Resources, Inc., Robert E. Tschappat Sr. et ux., Paul J. & Julie D. Maidens, W.Va. Department of Highways, State Road Commission, Edison A. Barlow et ux., Carmella Faya & Michael Rose, and Jim Arritt et al.

Top Hole 7.5' Spot



DETAIL 1 Scale: 1"=500'



WELL REFERENCES



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