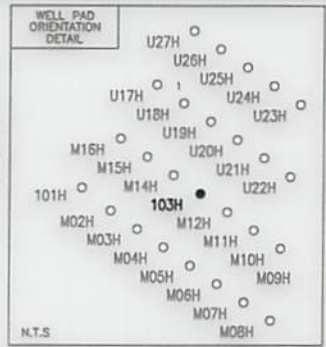
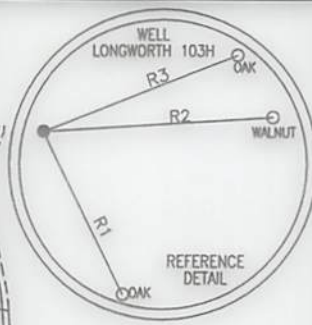


AS-DRILLED PLAT

BHL is located on topo map 4,605 feet south of Latitude: 39° 52' 30"
SHL is located on topo map 10,076 feet south of Latitude: 39° 52' 30"

LINE	BEARING	DISTANCE
R1	S 32°23'43" E	263.21'
R2	S 86°29'01" E	315.18'
R3	N 79°32'33" E	278.88'
R4	S 72°31'39" W	2265.46'
R5	N 88°16'12" W	1542.14'
R6	N 50°22'48" W	2221.95'



LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT
- BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- AS-DRILLED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS
- EXISTING WELLS
- PLUGGED WELLS

AS-DRILLED LOCATIONS
SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4410857.504
E:523372.246
NAD83, WV NORTH
N:493123.110
E:1624061.210

APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4411378.729
E:523772.238
NAD83, WV NORTH
N:494811.570
E:1625402.370

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4412523.251
E:522840.469
NAD83, WV NORTH
N:498618.420
E:1622407.540

- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
 - There are no existing buildings within 625' of proposed well.
 - Lateral information depicted hereon was supplied by others.

THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

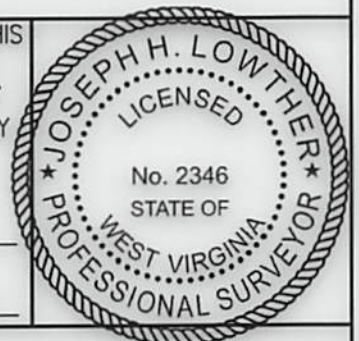
FILE #: LONGWORTH 103H - AS-DRILLED
DRAWING #: LONGWORTH 103H-AS-DRILLED
SCALE: 1" = 2000'
MINIMUM DEGREE
OF ACCURACY: 1/2500
PROVEN SOURCE
OF ELEVATION: U.S.G.S. MONUMENT
THOMAS 1498.81'

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:

R.P.E.:

L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON
UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: JANUARY 22, 2025

OPERATOR'S WELL #: LONGWORTH 103H-AS-DRILLED

API WELL #: 47 51 02520
STATE COUNTY PERMIT

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep ☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1270.00'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 123.589±

OIL & GAS ROYALTY OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 298.747±

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐
PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☒

(SPECIFY): AS-DRILLED PLAT

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,553'± TMD: 12,232'±

WELL OPERATOR: EQT CHAP LLC DESIGNATED AGENT: JOSEPH C. MALLOW

Address: 400 WOODCLIFF DRIVE Address: 427 MIDSTATE DRIVE

City: CANONSBURG State: PA Zip Code: 15317 City: CLARKSBURG State: WV Zip Code: 26301

LONGWORTH

103H

PAGE 2 OF 2

AS-DRILLED

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	GRAHAM H. LONGWORTH JR. ET AL	4-11/2
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
C	GRAHAM H. LONGWORTH JR. ET AL	4-12/16
	SHERI L. EVRAETS FAMILY TRUST	
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
D	JAMES W. MORRISON, ET UX.	4-12/14
E	MICHAEL A. JOBES ET UX	4-12/13
F	MICHAEL JOBES ET UX	4-12/12
G	MICHAEL JOBES ET UX	4-12/12.2
H	DIOCESE OF WHEELING - CHARLESTON	4-12/10.2
	SUSAN MARKLEY ZIDAR, ET VIR.	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE, ET UX.	
I	DIOCESE OF WHEELING - CHARLESTON	4-10/1
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	

	LESSOR	DIST-TM/PAR
J	DIOCESE OF WHEELING - CHARLESTON	4-12/10
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
K	DIOCESE OF WHEELING - CHARLESTON	4-12/10.3
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
L	ROBERT D. RICHMOND, ET UX.	4-12/5
M	DIOCESE OF WHEELING - CHARLESTON	4-12/10.4
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
N	DIOCESE OF WHEELING - CHARLESTON	4-12/9
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
O	JMK IREV TRST	4-12/3
	PURPLEBURGH VENTURES LLC	
	MARCELLUS TX MINERAL PRTRNS LTD	

	SURFACE OWNER	DIST-TM/PAR
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7	KEVIN HAUGHT	4-12/12.1
8	KEVIN HAUGHT	4-12/12
9	KEVIN HAUGHT	4-12/12.2
10	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/10.2
11	CITY OF MOUNDSVILLE	4-10/1
12	THOMAS L. AND CLARA J. HAUGHT	4-12/6
13	THOMAS L. AND CLARA J. HAUGHT	4-12/11
14	THOMAS HAUGHT ET AL	4-12/10
15	THOMAS L. & CLARA J. HAUGHT	4-12/10.1
16	CLIFFORD A. & JOY M. WHITE	4-12/10.3
17	ROBERT D & VIRGINIA RICHMOND	4-12/5
18	CLIFFORD A. & JOY M. WHITE	4-12/10.4
19	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-12/25
20	THOMAS L. & CLARA J. HAUGHT	4-12/9
21	THOMAS L. & CLARA J. HAUGHT	4-12/8
22	THOMAS L. & CLARA J. HAUGHT	4-12/7
23	MERLE CHAPLIN ET UX	4-12/3
24	MERLE R. & JEAN E. CHAPLIN	4-12/3.1

AS-DRILLED LOCATIONS	
SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83(M)	
N:4410857.504	
E:523372.248	
NAD83, WV NORTH	
N:493123.110	
E:1624061.210	
APPROX. LANDING POINT	
UTM 17-NAD83(M)	
N:4411378.729	
E:523772.238	
NAD83, WV NORTH	
N:494811.570	
E:1625402.370	
BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83(M)	
N:4412523.787	
E:522838.074	
NAD83, WV NORTH	
N:498620.310	
E:1622399.710	

01/23/2026

THRASHER

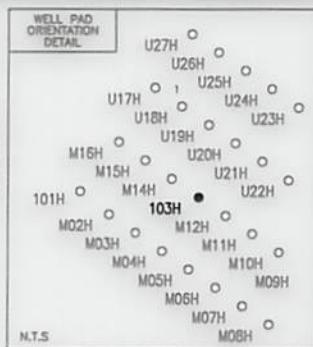
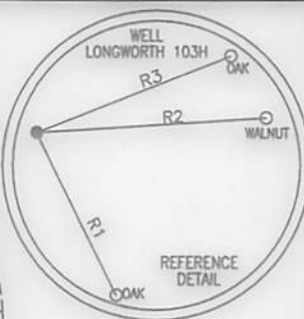
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

JANUARY 22, 2025

AS-DRILLED PLAT

BHL is located on topo map 4,605 feet south of Latitude: 39° 52' 30"
SHL is located on topo map 10,076 feet south of Latitude: 39° 52' 30"

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- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT
- BOUNDARY PARCEL LINES
- WELL REFERENCE
- AS-DRILLED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS
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- PLUGGED WELLS

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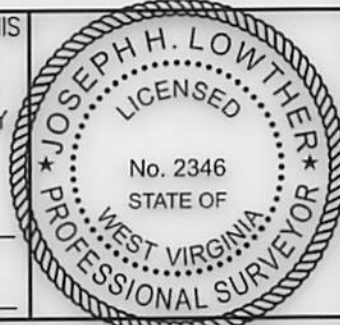
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: LONGWORTH 103H - AS-DRILLED
DRAWING #: LONGWORTH 103H-AS-DRILLED
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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:
R.P.E.: _____ L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: JANUARY 20, 2024
OPERATOR'S WELL #: LONGWORTH 103H-AS-DRILLED
API WELL #: 47 51 02520
STATE COUNTY PERMIT

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep ☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1270.00'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 123.589±

OIL & GAS ROYALTY OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 298.747±

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐

PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☒

(SPECIFY): AS-DRILLED PLAT

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,550'± TMD: 12,232'±

WELL OPERATOR: EQT CHAP LLC DESIGNATED AGENT: JOSEPH C. MALLOW

Address: 400 WOODCLIFF DRIVE Address: 427 MIDSTATE DRIVE

City: CANONSBURG State: PA Zip Code: 15317 City: CLARKSBURG State: WV Zip Code: 26301

As Drilled

LONGWORTH 103H PAGE 2 OF 2 AS-DRILLED

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	GRAHAM H. LONGWORTH JR. ET AL	4-11/2
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
C	GRAHAM H. LONGWORTH JR. ET AL	4-12/16
	SHERI L. EVRAETS FAMILY TRUST	
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
D	JAMES W. MORRISON, ET UX.	4-12/14
E	MICHAEL A. JOBES ET UX	4-12/13
F	MICHAEL JOBES ET UX	4-12/12
G	MICHAEL JOBES ET UX	4-12/12.2
H	DIOCESE OF WHEELING - CHARLESTON	4-12/10.2
	SUSAN MARKLEY ZIDAR, ET VIR.	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFERY A. WUERTHELE	
	MICHAEL D. WUERTHELE, ET UX.	
I	DIOCESE OF WHEELING - CHARLESTON	4-10/1
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	

	LESSOR	DIST-TM/PAR
J	DIOCESE OF WHEELING - CHARLESTON	4-12/10
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
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	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
K	DIOCESE OF WHEELING - CHARLESTON	4-12/10.3
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
L	ROBERT D. RICHMOND, ET UX.	4-12/5
M	DIOCESE OF WHEELING - CHARLESTON	4-12/10.4
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
N	DIOCESE OF WHEELING - CHARLESTON	4-12/9
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
O	JMK IREV TRST	4-12/3
	PURPLEBURGH VENTURES LLC	
	MARCELLUS TX MINERAL PRTNRS LTD	

	SURFACE OWNER	DIST-TM/PAR
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6	KEVIN HAUGHT	4-12/13
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10	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/10.2
11	CITY OF MOUNDSVILLE	4-10/1
12	THOMAS L. AND CLARA J. HAUGHT	4-12/6
13	THOMAS L. AND CLARA J. HAUGHT	4-12/11
14	THOMAS HAUGHT ET AL	4-12/10
15	THOMAS L. & CLARA J. HAUGHT	4-12/10.1
16	CLIFFORD A. & JOY M. WHITE	4-12/10.3
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UTM 17-NAD83(M)
N:4412523.787
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01/23/2026

THRASHER

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BRIDGEPORT, WV 26330
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JANUARY 20, 2024