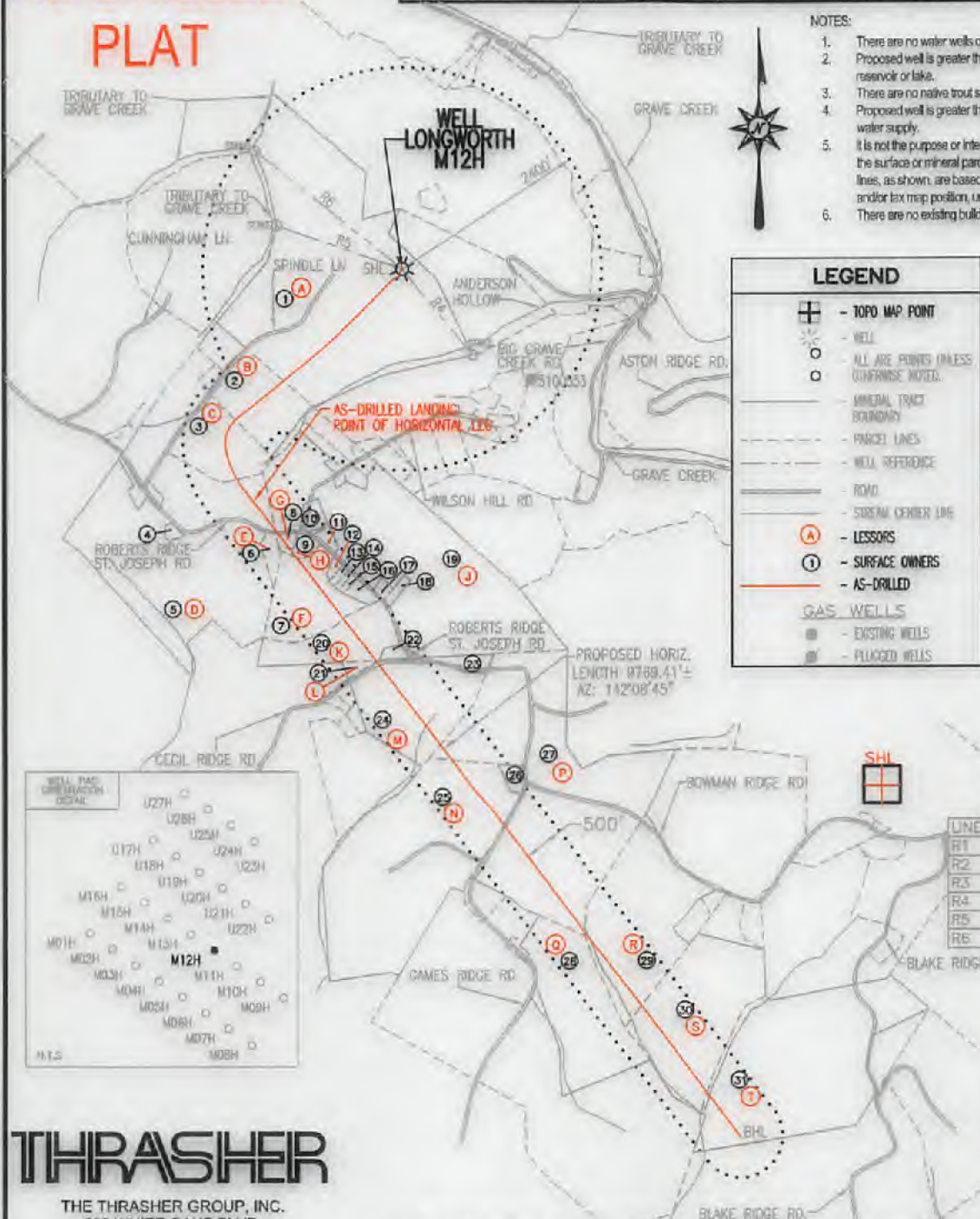


AS-DRILLED PLAT

BHL is located on topo map 5,232 feet south of Latitude: 39° 50' 00"
 SHL is located on topo map 10,097 feet south of Latitude: 39° 52' 30"



AS-DRILLED LOCATIONS UTM 17-NAD83(N)	
SURFACE HOLE LOCATION (SHL)	
N:4410843.05	E:523394.63
APPROX LANDING POINT (LP)	
N:4409989.94	E:522862.56
BOTTOM HOLE LOCATION (BHL)	
N:4407713.41	E:524688.26

LEGEND

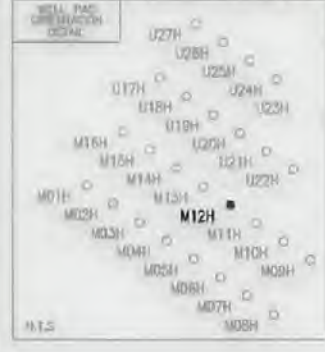
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- AS-DRILLED

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS

- 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.

BHL is located on topo map 953 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 5,111 feet west of Longitude: 80° 42' 30"



LINE	BEARING	DISTANCE
R1	S 22°52'27" E	185.85
R2	N 83°04'43" E	243.65
R3	N 83°46'03" E	224.68
R4	S 39°38'14" E	1329.03
R5	N 71°03'16" W	1595.18
R6	N 51°23'19" W	2255.66



THRASHER

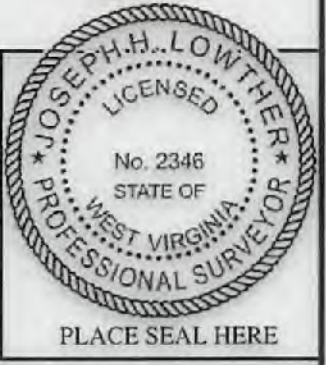
THE THRASHER GROUP, INC.
 600 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE 304-624-4108

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: LONGWORTH M12H - AS-DRILLED
 DRAWING #: LONGWORTH M12H - 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: Joseph H. Lowther
 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: FEBRUARY 23, 2021
 OPERATOR'S WELL #: LONGWORTH M12H - AS-DRILLED
 API WELL #: 47 51 02132
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1295'
 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: 813.518±

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: 6,690'± TMD: 17,779'±
 WELL OPERATOR EQT CHAP LLC DESIGNATED AGENT JOSEPH C. MALLOW
 Address 400 WOODCLIFF DRIVE Address 115 PROFESSIONAL PLACE, PO BOX 280
 City CANONSBURG State PA Zip Code 15317 City BRIDGEPORT State WV Zip Code 26330

LONGWORTH

M12H

PAGE 2 OF 2

AS-DRILLED

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR., ET AL	4-11/1
B	HOLMES CWC LEGACY LLC	4-11/55
C	MARY W. HOLMES ET AL	4-13/39
D	MICHAEL W. DERROW ET AL	5-3/13
E	*KAREN M. CARNEY	5-3/13.3
	*ABRAHAM S. NEMURAS	
F	GEORGE R. LIGHTNER, SR.	5-3/41
G	RICHARD M. & CRYSTAL M. HUGGINS	5-3/36
H	GEORGE R. LIGHTNER SR.	5-3/41.1
J	CLINT E. FLOWERS AND BRENT L. FLOWERS	4-11/56
K	LLOYD BAKER	5-3/17
L	LLOYD BAKER	5-3/18
M	PIKEWOOD ENERGY CORP.	9-1/19
N	CNX GAS COMPANY LLC	9-1/20.1
P	SHANNON R. & Lyla L. HUBBS	9-1/21
Q	*JOHN D. ROBERTS	9-4/8
R	DEAN B. COLVIN	9-1/22.2
	MARGARET KINNEY	
	PATRICIA COLVIN GRANDSTAFF	
	MARILYN PYLES SNYDER	
	JAMES E. PYLES	
	SUSAN ASTON	
	CAROL HULL	
	DAVID GEORGE MOORE	
	BETTY LOU DELLGET KERNS	
	MARILYN SOUTH	
	HOWARD GUMP ET UX	
	JUDY REILLEY FEIERSTEIN	
	RICHARD O'HARA	
	CATHY J. COLVIN	
	ALICE FAYE VAN DINE	
	LORA FORNSHELL	
	KEITH PYLES	
	WANDA L. PYLES	
	SHERLEY M. WHITE FKA SHERLEY M. VAN DINE	
	VERENDA STOKES	
	DOMINAE VESICO-RAMIREZ	
	KRISTA L. VAN DINE	

	LESSOR	DIST-TM/PAR
R	ROBERT P. COLVIN	9-1/22.2
	RONALD PYLES	
	DONALD COOK POA CAROL HULL	
	KEVIN O'HARA	
	CATHY LUDWIG GARRETT	
	ROBERT R. D'ERAMO JR., ET AL	
	DEBRA FORDYCE	
	KEITH JOEL VAN DINE	
	GLADYS PETRELLE BY AIF SHIRLEY BUFFONE	
	RODNEY COLVIN	
	PAULA REILLEY	
	VICKIE EISENHAEUER	
	KIM YOHO	
	JASON COLVIN	
	BRENDA WILLINGHAM	
	DONALD COLVIN	
	MICHAEL COLVIN	
	STACY PANYKO	
	HAROLD E. VAN DINE	
	JOHN E. VAN DINE	
S	THOMAS B. CLARK ET UX	9-4/9.1
T	THOMAS B. CLARK ET UX	9-5/2

AS-DRILLED LOCATIONS	
UTM 17-NAD83(M)	
SURFACE HOLE LOCATION (SHL)	N:4410843.05 E:523394.63
APPROX LANDING POINT (LP)	N:4409989.94 E:522862.56
BOTTOM HOLE LOCATION (BHL)	N:4407713.41 E:524688.28

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	HOLMES-CWC-LEGACY LLC	4-11/55
3	MARY HOLMES - LIFE	4-13/39
4	TRACY MERCER	5-3/13.2
5	DOUGLAS G., MICHAEL W. & STEVEN S. DERROW	5-3/13
6	*KAREN M. CARNEY & ABRAHAM S. NEMURAS	5-3/13.3
7	GEORGE R. LIGHTNER SR.	5-3/41
8	JORDAN M. & ASHLEY J. WALLACE	5-3/36
9	ASHLEY J. & JORDAN M. WALLACE	5-3/41.1
10	CLINT E. & BRENT L. FLOWERS	4-11/56.13
11	CLINT E. & BRENT L. FLOWERS	4-11/56.6
12	MARK DAVID MILLER	5-3/41.2
13	MARK DAVID MILLER	5-3/37
14	MARK DAVID MILLER	5-3/38
15	JOHN D. JR. & CATHY L. LIGHTNER	5-3/39
16	CAMDEN M. CHAMBERS II	5-3/40
17	DAVID A. & BONNIE LYNN FOX	4-11/56.8
18	THOMAS O. RICHMOND ET UX	4-11/56.1
19	CLINT E. & BRENT B. FLOWERS	4-11/56
20	LLOYD BAKER	5-3/17
21	LLOYD BAKER	5-3/18
22	LLOYD BAKER	5-3/19
23	KENNETH A. MAYHUGH II & SHELBY E. HARRIS	4-11/58
24	CHAS R. & EDITH V. KERNAN	9-1/19
25	CNX LAND RESOURCES INC	9-1/20.1
26	CNX LAND RESOURCES INC	9-1/20
27	CNX LAND RESOURCES INC	9-1/21
28	*JOHN D. & MARSHA ROBERTS	9-4/8
29	GEORGE CHRIS LAGOS ET UX	9-1/22.2
30	THOMAS B. & ANNETTE K. CLARK	9-4/9.1
31	THOMAS B. & ANNETTE K. CLARK	9-5/2

12/24/2021

THRASHER

THE THRASHER GROUP, INC.
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BRIDGEPORT, WV 26330
PHONE 304-624-4108

FEBRUARY 23, 2021