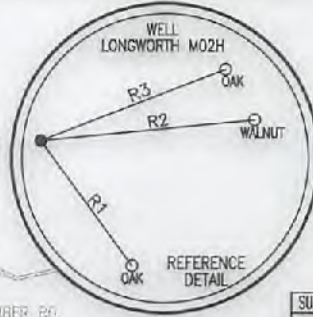


LINE	BEARING	DISTANCE
R1	S 36°19'58" E	213.08'
R2	N 84°27'02" E	297.36'
R3	N 68°53'12" E	274.02'
R4	S 73°49'37" W	2269.37'
R5	N 86°31'42" W	1562.93'
R6	N 50°31'38" W	2213.26'

BHL is located on topo map 2,872 feet south of Latitude: 39° 52' 30"  
 SHL is located on topo map 10,097 feet south of Latitude: 39° 52' 30"

NOTES:

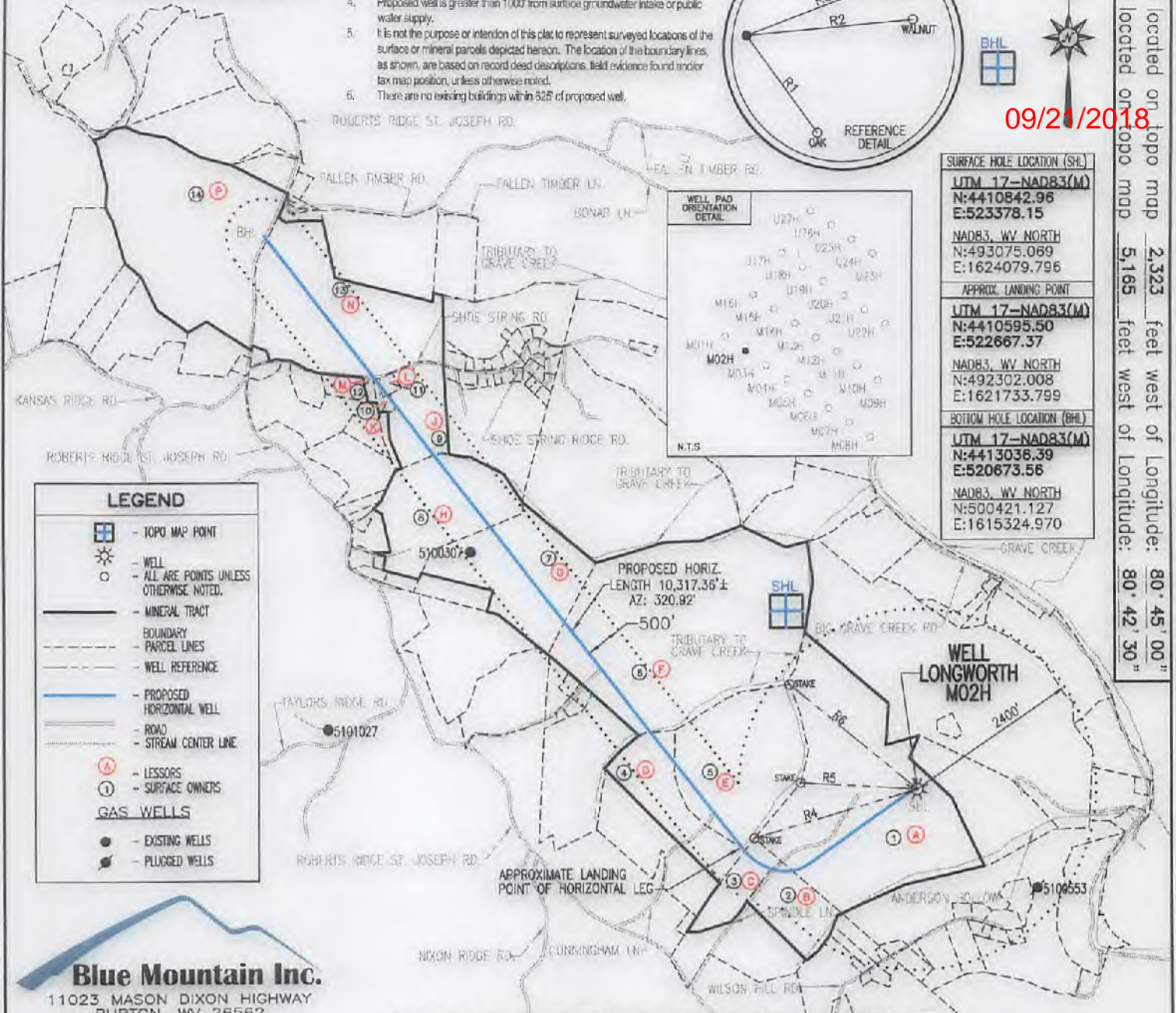
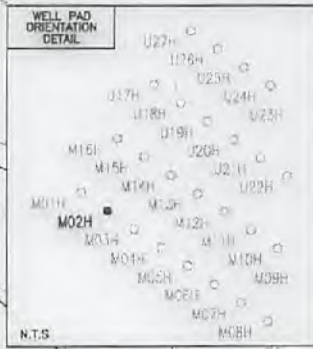
1. There are no water wells or developed springs within 250' of proposed well.
2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
3. There are no native trout streams within 300' of proposed well.
4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
5. 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.
6. There are no existing buildings within 525' of proposed well.



09/21/2018

BHL is located on topo map 2,323 feet west of Longitude: 80° 45' 00"  
 SHL is located on topo map 5,165 feet west of Longitude: 80° 42' 30"

SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83(M)	N:4410842.96
	E:523378.15
NAD83, WV NORTH	
	N:493075.069
	E:1624079.796
APPROX. LANDING POINT	
UTM 17-NAD83(M)	N:4410595.50
	E:522667.37
NAD83, WV NORTH	
	N:492302.008
	E:1621733.799
BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83(M)	N:4413036.39
	E:520673.56
NAD83, WV NORTH	
	N:500421.127
	E:1615324.970



**LEGEND**

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

**Blue Mountain Inc.**  
 11023 MASON DIXON HIGHWAY  
 BURTON, WV 26562  
 PHONE: (304) 662-6486

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: LONGWORTH M02H  
 DRAWING #: LONGWORTH M02H  
 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: George D. Six  
 R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000

**GEORGE D SIX**  
 LICENSED  
 No. 2000  
 STATE OF  
 WEST VIRGINIA  
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

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



DATE: DECEMBER 20 2017  
 OPERATOR'S WELL #: LONGWORTH M02H  
 API WELL #: 47 51 02079 H6A  
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1294.18'

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: 709.816±

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

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

(SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,600± TMD: 18,417.28±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY  
 Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600  
 City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202

# LONGWORTH M02H PAGE 2 OF 2

47-051-02079

09/21/2018

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	HOLMES CWC LEGACY LLC	4-11/55
C	JEFFREY S. HOLMES ET UX	4-13/39.1
D	DALE CUNNINGHAM ET UX	4-13/34
E	DALE CUNNINGHAM ET UX	4-13/33
F	BRETT A. ANDREWS ET UX	4-12/19
G	RALPH E. WOOD	4-12/21
H	RALPH E. WOOD	4-12/22
J	KENNETH D. TUCKER ET UX	4-12/1
K	GARY L. ECKHARDT	4-13/14.1
L	RICHARD D. ARRUDA ET UX	4-12/1.1
M	*LIONEL SCHWING ET UX	4-13/13
N	BYRON C. FREELAND ET UX	4-7/28
P	JOSEPH L. FREELAND ET UX	4-7/21

SURFACE HOLE LOCATION (SHL)
<b>UTM 17-NAD83(M)</b> N:4410842.96 E:523378.15  NAD83, WV NORTH N:493075.069 E:1624079.796
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BOTTOM HOLE LOCATION (BHL)
<b>UTM 17-NAD83(M)</b> N:4413036.39 E:520673.56  NAD83, WV NORTH N:500421.127 E:1615324.970

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	HOLMES-CWC-LEGACY LLC	4-11/55
3	JEFFREY SCOTT HOLMES ET AL	4-13/39.1
4	DALE & MARY CUNNINGHAM	4-13/34
5	DALE & MARY CUNNINGHAM	4-13/33
6	CODY M. JARRETT	4-12/19
7	RALPH E. WOOD	4-12/21
8	RALPH E. WOOD	4-12/22
9	KEITH J. GUZEK	4-12/1
10	GARY L. ECKHARDT	4-13/14.1
11	RICHARD DAVID & TAMMY D. ARRUDA	4-12/1.1
12	*LIONEL SCHWING ET UX	4-13/13
13	BYRON FREELAND	4-7/28
14	JOSEPH L. FREELAND ET UX	4-7/21

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

**DECEMBER 20, 2017**