

LINE	BEARING	DISTANCE
R1	S 33°15'20" E	185.04'
R2	N 80°26'23" E	275.01'
R3	N 63°23'43" E	258.19'
R4	N 50°35'57" W	2243.21'
R5	N 85°58'34" W	1588.88'
R6	S 41°03'46" E	1335.61'

BHL is located on topo map 3,250 feet south of Latitude: 39° 52' 30"
 SHL is located on topo map 10,141 feet south of Latitude: 39° 52' 30"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

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.

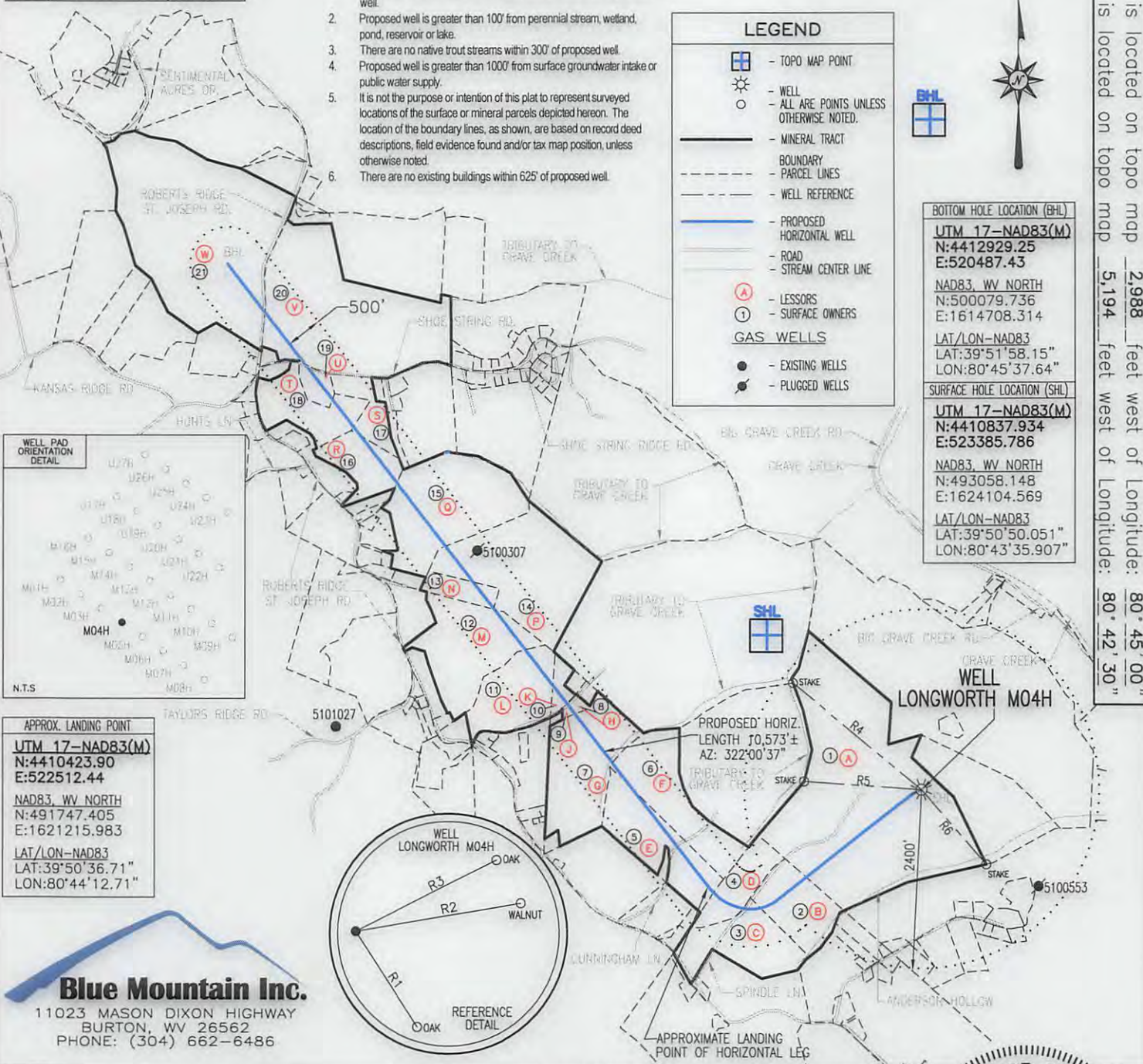
LEGEND

- 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

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4412929.25
 E:520487.43
 NAD83, WV NORTH
 N:500079.736
 E:1614708.314
 LAT/LON-NAD83
 LAT:39°51'58.15"
 LON:80°45'37.64"

SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4410837.934
 E:523385.786
 NAD83, WV NORTH
 N:493058.148
 E:1624104.569
 LAT/LON-NAD83
 LAT:39°50'50.051"
 LON:80°43'35.907"

BHL is located on topo map 2,988 feet west of Longitude: 80° 45' 00"
 SHL is located on topo map 5,194 feet west of Longitude: 80° 42' 30"



FILE #: LONGWORTH M04H
 DRAWING #: LONGWORTH M04H
 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: [Signature]
 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: OCTOBER 4, 2016
 OPERATOR'S WELL #: LONGWORTH M04H
 API WELL #: 47 51 01904 HGA
 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: 667.256±

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: 19,215.3'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
 City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

03/03/2017

LONGWORTH

M04H

PAGE 2 OF 2

	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	JEFFREY S. HOLMES ET UX	4-13/39.1
E	LOREN HARTLEY ET UX	4-13/35
F	DALE CUNNINGHAM ET UX	4-13/34
G	DEBRA GUMP ET AL TIMOTHY HUGGINS	4-13/32
H	WILLIAM F. BRITTON	4-13/32.6
J	JOHN R. WOOD ESTATE	4-13/32.2
K	KEITH A. HILL ET UX	4-13/32.3
L	ROBERT L. JONES, JR. ET UX	4-13/29
M	PAUL TRADER ET UX	4-13/25
N	ROBERT L. JONES, JR. ET UX	4-12/24
P	RALPH E. WOOD	4-12/21
Q	RALPH E. WOOD	4-12/22
R	LEMONT MASON ET UX	4-13/15.1
S	LIONEL SCHWING ET UX	4-13/13.1
T	LEMONT MASON ET UX	4-13/12
U	DUSTIN E. CRAWFORD	4-13/12.2
V	BYRON C. FREELAND ET UX	4-7/28
W	JOSEPH L. FREELAND ET UX	4-7/21

	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	JEFFREY SCOTT HOLMES, ET AL.	4-13/39.1
5	PATRICIA A. HARTLEY	4-13/35
6	DALE & MARY CUNNINGHAM	4-13/34
7	DEBRA GUMP	4-13/32
8	WILLIAM F. BRITTON	4-13/32.6
9	HARLEY WOOD EST	4-13/32.2
10	KEVIN L. HOLMES, JR.	4-13/32.3
11	ROBERT L. JONES, JR.	4-13/29
12	PAUL TRADER	4-13/25
13	ROBERT L. JONES, JR., ET UX.	4-12/24
14	RALPH E. WOOD	4-12/21
15	RALPH E. WOOD	4-12/22
16	LEMONT MASON, ET UX.	4-13/15.1
17	LIONEL D. SCHWING, ET UX.	4-13/13.1
18	LEMONT & RHONDA L. MASON	4-13/12
19	DUSTIN E. CRAWFORD	4-13/12.2
20	BYRON FREELAND	4-7/28
21	JOSEPH L. FREELAND, ET UX.	4-7/21

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UTM 17-NAD83(M)
N:4410837.934
E:523385.786
NAD83, WV NORTH
N:493058.148
E:1624104.569
LAT/LON-NAD83
LAT:39°50'50.051"
LON:80°43'35.907"

APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4410423.90
E:522512.44
NAD83, WV NORTH
N:491747.405
E:1621215.983
LAT/LON-NAD83
LAT:39°50'36.71"
LON:80°44'12.71"

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4412929.25
E:520487.43
NAD83, WV NORTH
N:500079.736
E:1614708.314
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