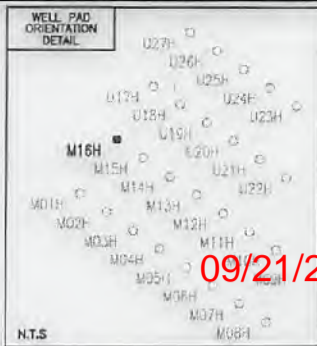
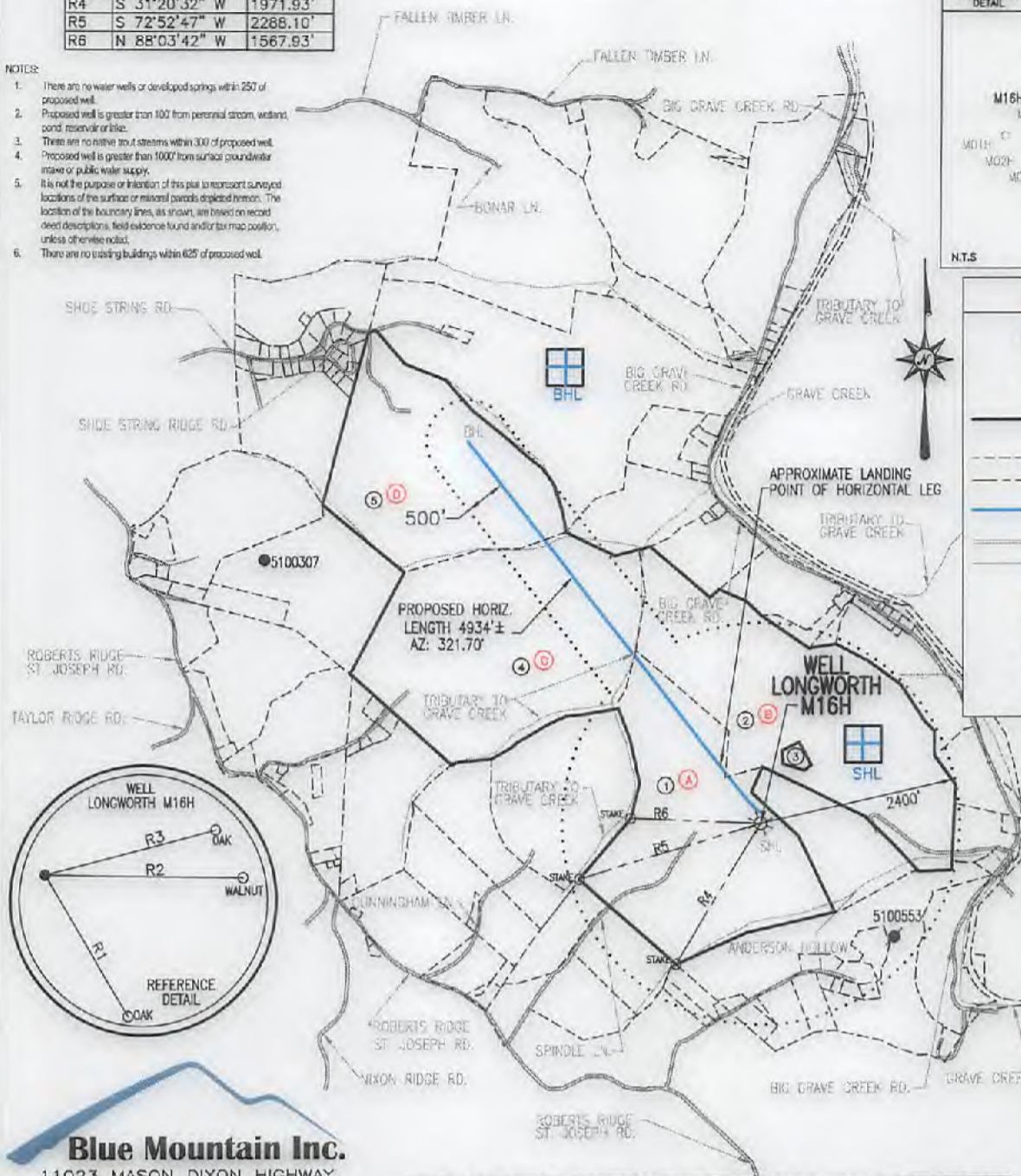


LINE	BEARING	DISTANCE
R1	S 30°42'42" E	238.32'
R2	S 89°07'10" E	291.46'
R3	N 75°23'08" E	259.49'
R4	S 31°20'32" W	1971.93'
R5	S 72°52'47" W	2266.10'
R6	N 88°03'42" W	1567.93'

BHL is located on topo map 5,554 feet south of Latitude: 39° 52' 30"
 SHL is located on topo map 10,063 feet south of Latitude: 39° 52' 30"

BHL is located on topo map 8,755 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 5,161 feet west of Longitude: 80° 42' 30"

- NOTES:
- There are no water wells or developed springs within 257' 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 plan to re-survey surveyed locations of the surface or mineral parcels depicted thereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or for map position, unless otherwise noted.
 - There are no existing buildings within 625' of proposed well.



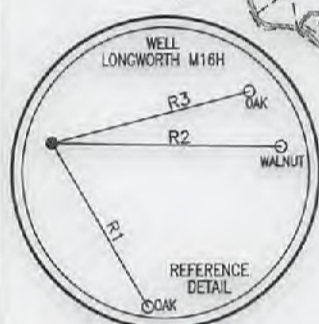
LEGEND

- 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

SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4410853.11
 E:523379.37
 NAD83, WV NORTH
 N:493108.302
 E:1624084.331

APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4411057.33
 E:523228.24
 NAD83, WV NORTH
 N:493786.738
 E:1623599.629

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4412223.88
 E:522279.93
 NAD83, WV NORTH
 N:497666.775
 E:1620551.720



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

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: LONGWORTH M16H
 DRAWING #: LONGWORTH M16H
 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



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 M16H
 API WELL #: 47 51 02083 H6A
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1290.96'

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: 539.594±

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: 11,947.97±

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

M16H

PAGE 2 OF 2

47 051 02083

09/21/2018

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	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	
C	BRETT A. ANDREWS ET UX	4-12/19
	D	JMK IREV TRST
	PURPLEBURGH VENTURES LLC	
	MARCELUS TX MINERAL PRTRNS LTD	

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	DANIEL C. LONGWORTH	4-12/16
3	DANIEL C. SR. AND JEANNETTE L. LONGWORTH	4-12/16.1
4	CODY M. JARRETT	4-12/19
5	MERLE L. CHAPLIN ET UX	4-12/4

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DECEMBER 20, 2017