

BHL is located on topo map 3,816 feet south of Latitude: 39° 50' 00"
 SHL is located on topo map 10,147 feet south of Latitude: 39° 52' 30"

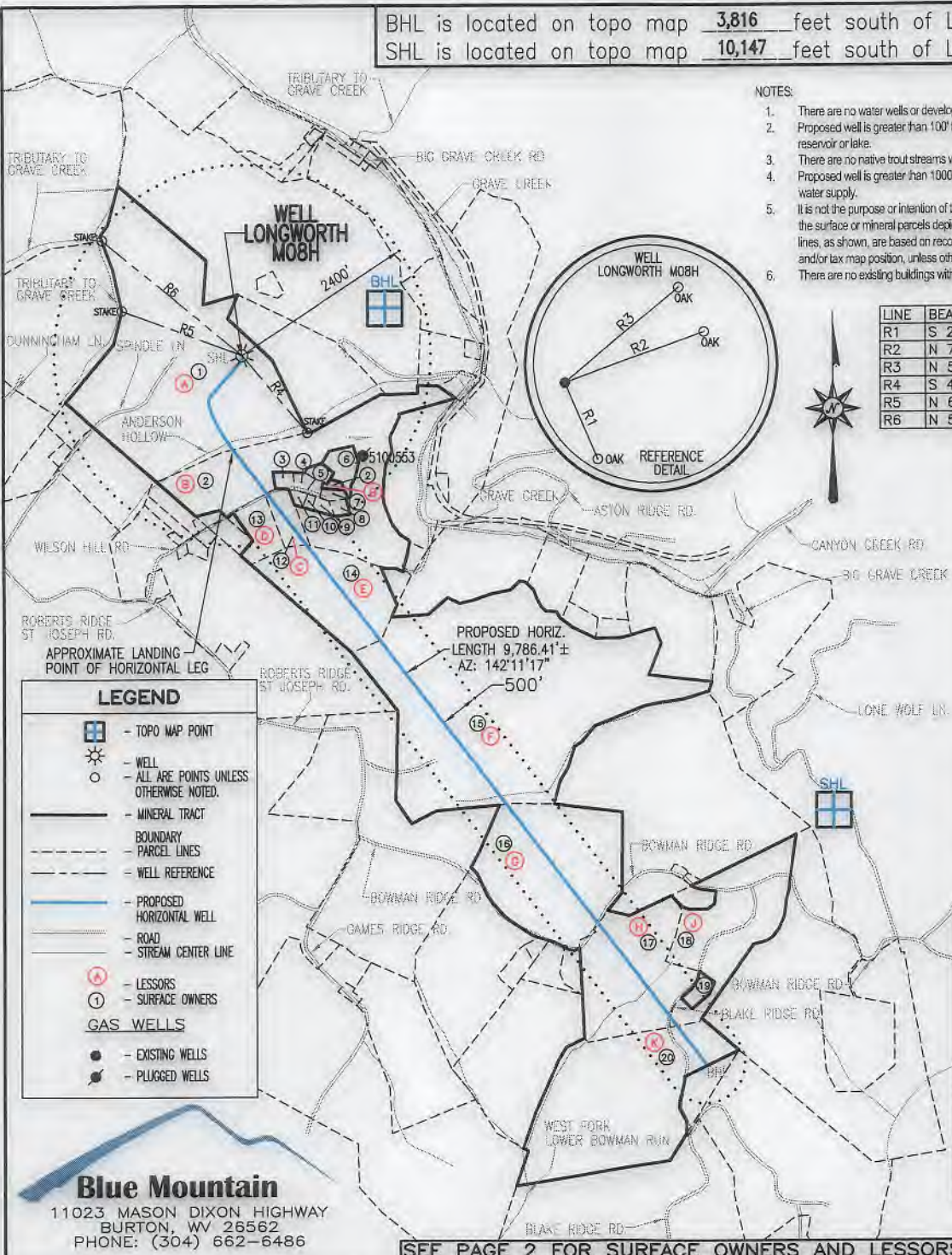
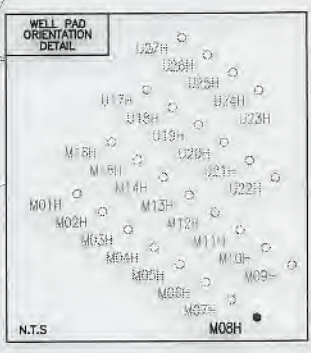
- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 3. There are no native trout streams within 300' of proposed well.
 4. Proposed well is greater than 1000' from surface 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 625' of proposed well.

LINE	BEARING	DISTANCE
R1	S 23°14'48" E	131.58'
R2	N 70°15'53" E	235.48'
R3	N 50°29'57" E	234.98'
R4	S 40°23'26" E	1277.67'
R5	N 69°37'07" W	1631.11'
R6	N 50°43'40" W	2302.91'

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4410827.88
 E:523401.05
 NAD83, WY NORTH
 N:493024.310
 E:1624154.110

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4410462.92
 E:523371.27
 NAD83, WY NORTH
 N:491828.340
 E:1624036.370

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4408138.06
 E:525238.50
 NAD83, WY NORTH
 N:484096.940
 E:1630036.160



BHL is located on topo map 10,791 feet west of Longitude: 80° 40' 00"
 SHL is located on topo map 5,090 feet west of Longitude: 80° 42' 30"

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

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: LONGWORTH M08H
 DRAWING #: LONGWORTH M08H
 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: SEPTEMBER 5, 2018
 OPERATOR'S WELL #: LONGWORTH M08H
 API WELL #: 47 51 02128
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1270'

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: 630.126±

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: 6,511'± TMD: 16,819.47'±

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

M08H

PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	DELORES J. FOX	4-11/54
C	NELLI J. MIDCAP	4-11/53
D	*JOHN D. LIGHTNER	4-11/54.4
E	JOHN D. LIGHTNER	4-11/57
F	HOWARD E. & SUSAN C. YOUNG	9-1/18
G	DEAN B. COLVIN	9-1/22
	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	
	ROBERT P. COLVIN	
	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	
H	JOHN K. MASON JR.	9-1/23
J	PETER MILLER	9-1/24
K	THOMAS B. CLARK ET UX	9-5/2

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NAD83, WV NORTH
N:484096.940
E:1630036.160

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	DUNCAN OR SUSAN ARNETT	4-11/54
3	DUNCAN R. OR SUSAN M. ARNETT	4-11/54.10
4	EDWARD WILLIAMS ET UX	4-11/54.11
5	JEFFREY STUCKEY	4-11/54.13
6	JAMES E. & LEAH A. YOHO	4-11/54.12
7	JAMES C. & MELISSA S. THATCHER	4-11/54.9
8	MARY STUCKEY	4-11/54.7
9	MARY STUCKEY	4-11/54.2
10	RAYMOND L. MIDCAP ET UX	4-11/54.6
11	NELLIE MIDCAP EST	4-11/54.5
12	NELLIE MIDCAP EST	4-11/53
13	*JOHN D. LIGHTNER ET UX	4-11/54.4
14	JOHN D. LIGHTNER ET UX	4-11/57
15	CNX LAND RESOURCES INC	9-1/18
16	CNX LAND RESOURCES INC	9-1/22
17	JOHN K. MASON JR.	9-1/23
18	PETER A. MILLER	9-1/24
19	KAREN LOUISE BELL AND ROGER L. DUNHAM	9-1/24.2
20	THOMAS B. & ANETTE K. CLARK	9-5/2

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE