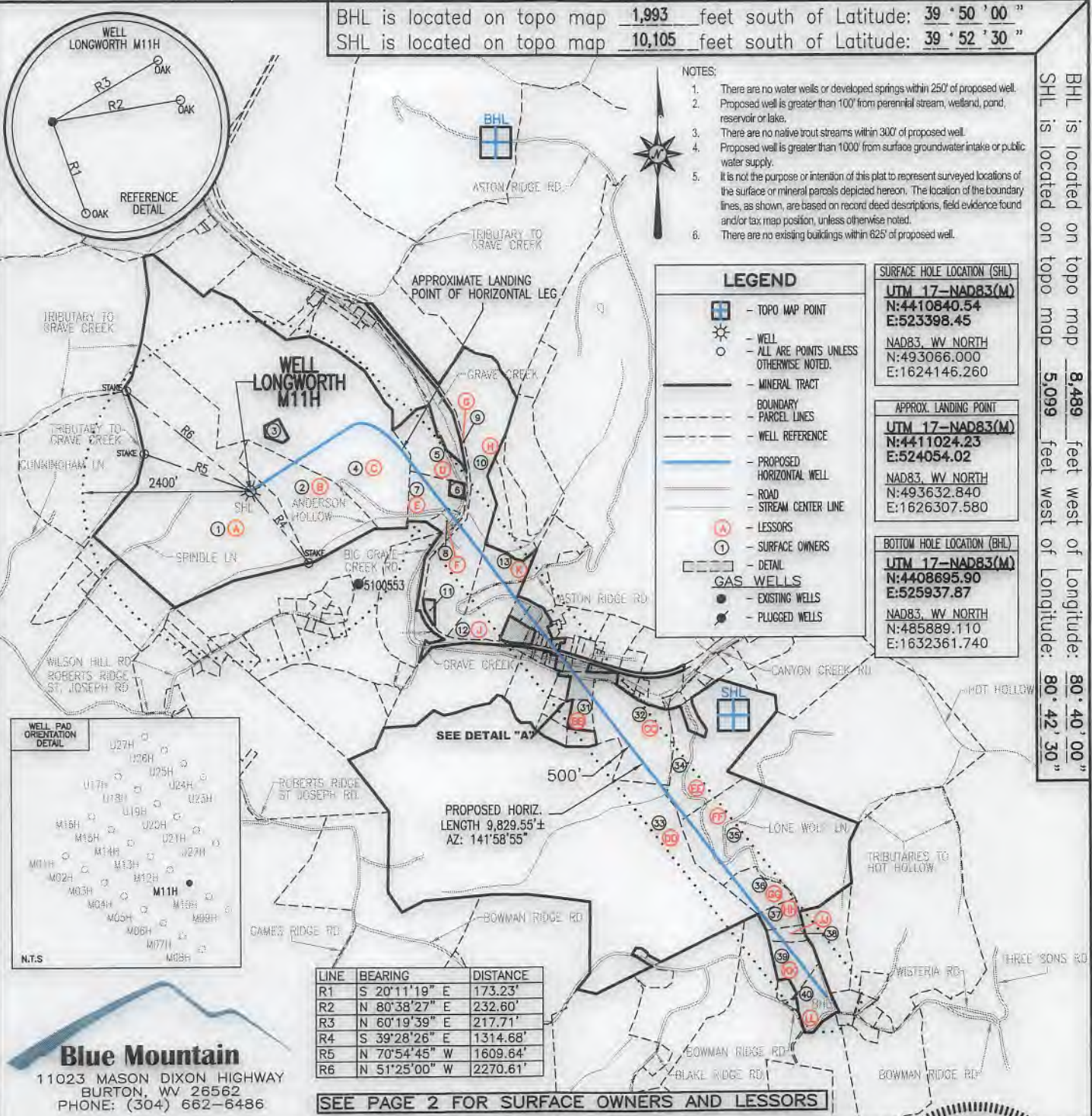


BHL is located on topo map 1,993 feet south of Latitude: 39° 50' 00"
 SHL is located on topo map 10,105 feet south of Latitude: 39° 52' 30"

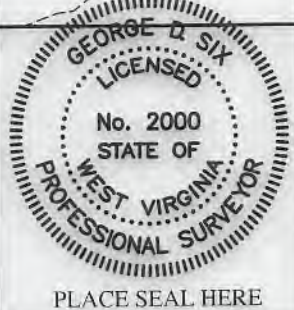
BHL is located on topo map 8,489 feet west of Longitude: 80° 40' 00"
 SHL is located on topo map 5,099 feet west of Longitude: 80° 42' 30"



FILE #: LONGWORTH M11H
 DRAWING #: LONGWORTH M11H
 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



(+) 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 M11H
 API WELL #: 47 51 02131
 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: 871.063±

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: 17,274.25±

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

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

LONGWORTH M11H PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR., ET AL	4-11/1
B	GRAHAM H. LONGWORTH JR., ET AL	4-11/2
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
C	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	
D	ROBERT L. SR. & PAMELA L. SHAFFER	4-12/15.3
	ROBERT L. SR. & PAMELA L. SHAFFER	4-12/15
F	KELLY B. & CONNIE S. WINLAND	4-12/15.2
G	CNX GAS COMPANY LLC	4-11A/25
H	HARRY F. & DONNA L. ROUSH	4-11/3
J	GLEN W. & RHONDA S. CONNER	4-11/51
K	HARRY F. & DONNA L. ROUSH	4-11/5
	HEIRS OF HARRISON M. EVANS	
L	LARRY E. YOHO	4-11A/24
M	LARRY E. YOHO	4-11A/23
N	WILLIAM CONNER GLEN	4-11A/22
	HOMER W. WHITE	
P	*ALVIN D. BARRETT	4-11A/3
Q	*DALE L. WITLACH	4-11A/4
R	DALE L. WITLACH	4-11A/5
S	CHARLES M. HENRY	4-11A/6

	LESSOR	DIST-TM/PAR
T	CHARLES M. HENRY	4-11A/7
U	*CHARLES M. HENRY	4-11A/8
V	*HARRY F. & DONNA L. ROUSH	4-11/4
W	JOHN Z. GARRISON	4-11A/35
X	JOHN Z. GARRISON	4-11A/36
Y	GOLDIE M. OLIVER	4-11A/37
AA	WELLMAN HEIRS	9-1/4
	ROBERT L., SR. & MARGARET J. TRAYON	
BB	*WELLMAN HEIRS	9-1/4.3
	*ROBERT L., JR. & AMY J. TRAYON	
CC	CONSOLIDATION COAL	9-1/5
DD	HOWARD E. BY AIF SUSAN YOUNG	9-1/18
EE	R.G. & ELIZABETH J. DAKAN HEIRS	9-1/12
FF	ROBERT A. WILLIAMS	9-1/13
GG	ROBERT A. WILLIAMS	9-1/13.3
HH	ROBERT A. WILLIAMS	9-1/13.4
JJ	ROBERT A. WILLIAMS	9-1/13.5
KK	KENNETH D. TUCKER	9-1/13.7
LL	GERALD E. LOGSDON	9-1/13.6

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	GRAHAM H. LONGWORTH JR.	4-11/2
3	DANIEL C. SR., & JEANNETTE L. LONGWORTH	4-12/16.1
4	DANIEL C. LONGWORTH	4-12/16
5	ROBERT L. SHAFFER SR., ET AL	4-12/15.3
6	ROBERT S. COWGILL	4-12/15.1
7	ROBERT L. SHAFFER SR., ET AL	4-12/15
8	KELLY BRUCE WINLAND ET UX	4-12/15.2
9	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-11A/25
10	HARRY F. ROUSH ET UX	4-11/3
11	DEAN ROUSH ET UX	4-11/3.1
12	GLEN W. CONNER ET UX	4-11/51
13	HARRY F. ROUSH ET UX	4-11/5
14	LARRY E. YOHO ET UX - G. E. YOHO	4-11A/24
15	LARRY E. YOHO ET UX	4-11A/23
16	GLEN WILLIAM CONNER ET AL	4-11A/22
17	KERMIT W. YOHO JR.	4-11A/1
18	ALVIN D. & CAROL D. BARRETT	4-11A/2
19	*ALVIN DALE BARRETT ET UX	4-11A/3
20	*DALE L. WHITLATCH ET UX	4-11A/4
21	DALE L. WHITLATCH ET UX	4-11A/5
22	CHARLES M. HENRY ET UX	4-11A/6
23	CHARLES M. HENRY ET UX	4-11A/7
24	*CHARLES M. HENRY ET UX	4-11A/8
25	*HARRY F. ROUSH	4-11/4
26	JONATHAN Z. & CARLA L. GARRISON	4-11A/35
27	JONATHAN Z. & CARLA L. GARRISON	4-11A/36
28	VIRGINIA L. CROW	4-11A/37
29	MANUFACTURERS LIGHT & HEAT	9-1/6
30	MARGARET JUNE TRAYON - LIFE	9-1/4
31	*ROBERT L. TRAYON ET UX	9-1/4.3
32	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	9-1/5
33	CNX LAND RESOURCES INC	9-1/18
34	ROBERT L. CLARK ET AL	9-1/12
35	CNX LAND RESOURCES INC	9-1/13
36	CNX LAND LLC	9-1/13.3
37	MACK L. CROW	9-1/13.4
38	MACK L. CROW	9-1/13.5
39	MISTY D. & MACK L. CROW	9-1/13.7
40	GERALD E. LOGSDON ET UX	9-1/13.6

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4410840.54 E:523398.45	UTM 17-NAD83(M) N:4411024.23 E:524054.02	UTM 17-NAD83(M) N:4408695.90 E:525937.87
NAD83, WV NORTH N:493066.000 E:1624146.260	NAD83, WV NORTH N:493632.840 E:1626307.580	NAD83, WV NORTH N:485889.110 E:1632361.740

