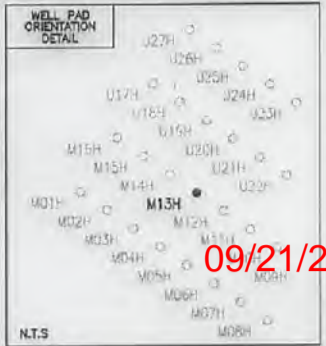
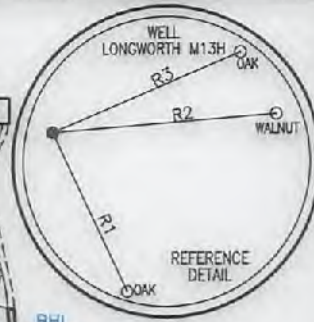


| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| R1 | S 25°13'18" E | 198.43' |
| R2 | N 85°18'00" E | 255.13' |
| R3 | N 86°59'22" E | 232.42' |
| R4 | S 73°55'40" W | 2311.60' |
| R5 | N 86°53'54" W | 1604.10' |
| R6 | N 50°33'59" W | 2294.08' |

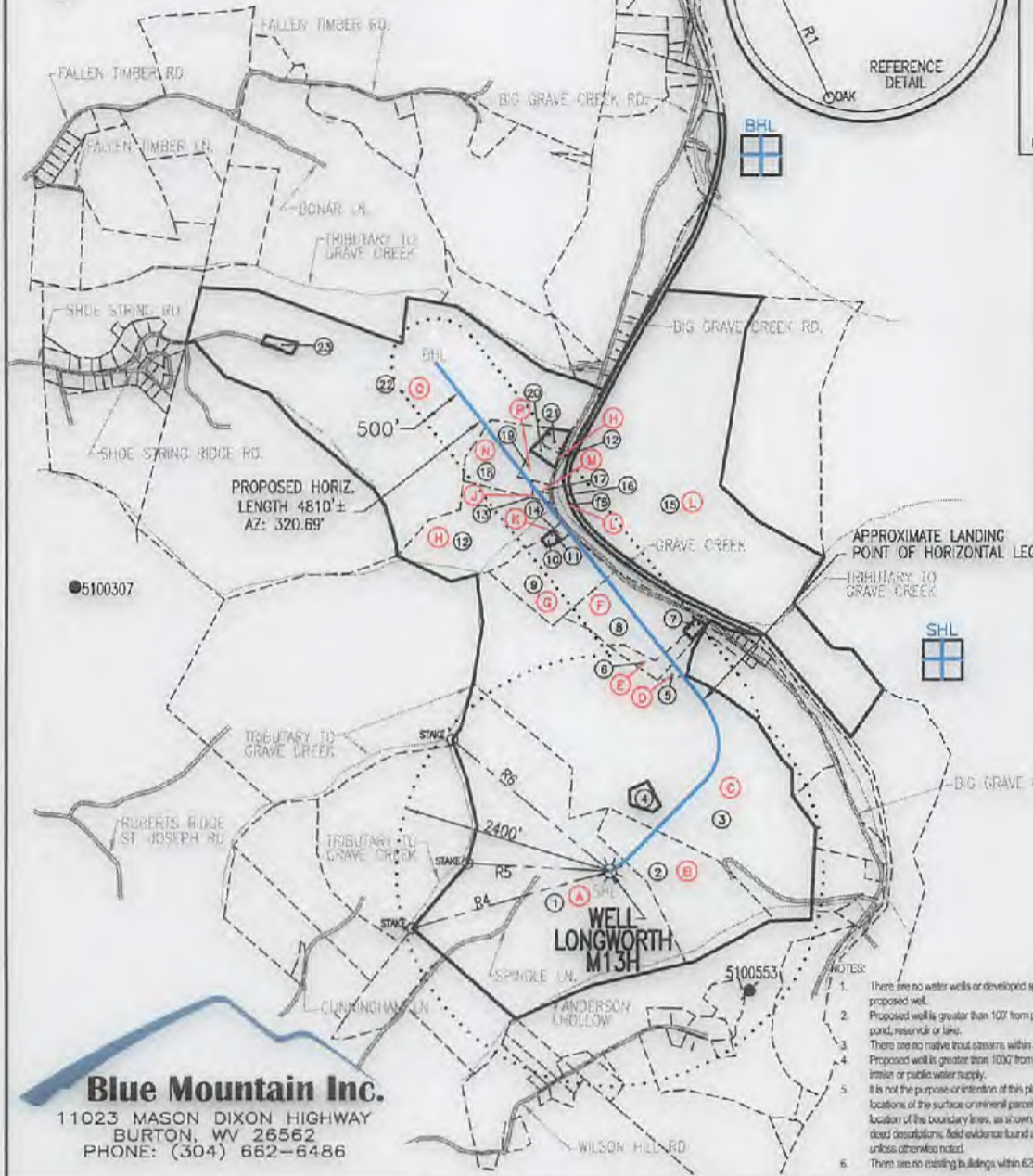
BHL is located on topo map 4,461 feet south of Latitude: 39° 52' 30"
 SHL is located on topo map 10,088 feet south of Latitude: 39° 52' 30"



SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS



09/21/2018



LEGEND

- TOP 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:4410845.57
 E:523390.81
 NAD83, WV NORTH
 N:493082.920
 E:1624121.490

APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4411427.26
 E:523697.91
 NAD83, WV NORTH
 N:494974.898
 E:1625161.138

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4412558.46
 E:522765.87
 NAD83, WV NORTH
 N:498738.047
 E:1622164.676

- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
 - Proposed wells greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed wells 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.

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

FILE #: LONGWORTH M13H
 DRAWING #: LONGWORTH M13H
 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 M13H
 API WELL #: 47 51 02080
 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: 675.652±

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: 12,716.36'±

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

47-051-02080

M13H

PAGE 2 OF 2

09/27/2018

| | 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 | |
| STEVEN 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 | |
| HENRY FRIESE | | |
| STEVEN FRIESE | | |
| D | MICHAEL A. JOBES ET UX | 4-12/13 |
| E | MICHAEL JOBES ET UX | 4-12/12.2 |
| F | MICHAEL A. JOBES ET UX | 4-12/12 |
| G | MARY ANN BAKER | 4-12/10.2 |
| | ULMAN TRUST MARY ANN BAKER TRSTE | |
| | DIocese OF WHEELING - CHARLESTON | |
| | ROBERT S. WUERTHELE | |
| | MARK K. WUERTHELE | |
| | JEFFREY A. WUERTHELE | |
| | MICHAEL D. WUERTHELE | |
| | SISTERS OF ST FRANCIS PROV OF GOD | |
| SUSAN ZIDAR ET VIR | | |
| VICKIE L. MARKEY IRREVOCABLE TRST | | |
| H | MARY ANN BAKER | 4-12/10 |
| | ULMAN TRUST MARY ANN BAKER TRSTE | |
| | DIocese OF WHEELING - CHARLESTON | |
| | ROBERT S. WUERTHELE | |
| | MARK K. WUERTHELE | |
| | JEFFREY A. WUERTHELE | |
| | MICHAEL D. WUERTHELE | |
| | SISTERS OF ST FRANCIS PROV OF GOD | |
| SUSAN ZIDAR ET VIR | | |
| VICKIE L. MARKEY IRREVOCABLE TRST | | |
| J | MARY ANN BAKER | 4-12/10.3 |
| | ULMAN TRUST MARY ANN BAKER TRSTE | |
| | DIocese OF WHEELING - CHARLESTON | |
| | ROBERT S. WUERTHELE | |
| | MARK K. WUERTHELE | |
| | JEFFREY A. WUERTHELE | |
| | MICHAEL D. WUERTHELE | |
| | SISTERS OF ST FRANCIS PROV OF GOD | |
| SUSAN ZIDAR ET VIR | | |
| VICKIE L. MARKEY IRREVOCABLE TRST | | |
| K | MARY ANN BAKER | 4-12/10.1 |
| | ULMAN TRUST MARY ANN BAKER TRSTE | |
| | DIocese OF WHEELING - CHARLESTON | |
| | ROBERT S. WUERTHELE | |
| | MARK K. WUERTHELE | |
| | JEFFREY A. WUERTHELE | |
| | MICHAEL D. WUERTHELE | |
| | SISTERS OF ST FRANCIS PROV OF GOD | |
| SUSAN ZIDAR ET VIR | | |
| VICKIE L. MARKEY IRREVOCABLE TRST | | |
| L | MARY ANN BAKER | 4-10/1 |
| | ULMAN TRUST MARY ANN BAKER TRSTE | |
| | DIocese OF WHEELING - CHARLESTON | |
| | ROBERT S. WUERTHELE | |
| | MARK K. WUERTHELE | |
| | JEFFREY A. WUERTHELE | |
| | MICHAEL D. WUERTHELE | |
| | SISTERS OF ST FRANCIS PROV OF GOD | |
| SUSAN ZIDAR ET VIR | | |
| VICKIE L. MARKEY IRREVOCABLE TRST | | |

| | LESSOR | DIST-TM/PAR |
|-----------------------------------|-----------------------------------|-------------|
| M | MARY ANN BAKER | 4-12/10.4 |
| | ULMAN TRUST MARY ANN BAKER TRSTE | |
| | DIocese OF WHEELING - CHARLESTON | |
| | ROBERT S. WUERTHELE | |
| | MARK K. WUERTHELE | |
| | JEFFREY A. WUERTHELE | |
| | MICHAEL D. WUERTHELE | |
| | SISTERS OF ST FRANCIS PROV OF GOD | |
| SUSAN ZIDAR ET VIR | | |
| VICKIE L. MARKEY IRREVOCABLE TRST | | |
| N | MARY ANN BAKER | 4-12/10.5 |
| | ULMAN TRUST MARY ANN BAKER TRSTE | |
| | DIocese OF WHEELING - CHARLESTON | |
| | ROBERT S. WUERTHELE | |
| | MARK K. WUERTHELE | |
| | JEFFREY A. WUERTHELE | |
| | MICHAEL D. WUERTHELE | |
| | SISTERS OF ST FRANCIS PROV OF GOD | |
| SUSAN ZIDAR ET VIR | | |
| VICKIE L. MARKEY IRREVOCABLE TRST | | |
| P | MARY ANN BAKER | 4-12/9 |
| | ULMAN TRUST MARY ANN BAKER TRSTE | |
| | DIocese OF WHEELING - CHARLESTON | |
| | ROBERT S. WUERTHELE | |
| | MARK K. WUERTHELE | |
| | JEFFREY A. WUERTHELE | |
| | MICHAEL D. WUERTHELE | |
| | SISTERS OF ST FRANCIS PROV OF GOD | |
| SUSAN ZIDAR ET VIR | | |
| VICKIE L. MARKEY IRREVOCABLE TRST | | |
| Q | JMK IREV TRST | 4-12/3 |
| | PURPLEBURGH VENTURES LLC | |
| | MARCELLUS TX MINERAL PRTRNS LTD | |

| | SURFACE OWNER | DIST-TM/PAR |
|----|--|-------------|
| 1 | GRAHAM H. LONGWORTH JR. | 4-11/1 |
| 2 | GRAHAM H. LONGWORTH JR. | 4-11/2 |
| 3 | DANIEL C. LONGWORTH | 4-12/16 |
| 4 | DANIEL C. SR. AND JEANNETTE L. LONGWORTH | 4-12/16.1 |
| 5 | KEVIN HAUGHT | 4-12/13 |
| 6 | KEVIN HAUGHT | 4-12/12.2 |
| 7 | KEVIN HAUGHT | 4-12/12.1 |
| 8 | KEVIN HAUGHT | 4-12/12 |
| 9 | THOMAS L. AND CLARA J. HAUGHT-LIFE | 4-12/10.2 |
| 10 | THOMAS L. AND CLARA J. HAUGHT-LIFE | 4-12/6 |
| 11 | THOMAS L. AND CLARA J. HAUGHT-LIFE | 4-12/11 |
| 12 | THOMAS HAUGHT ET AL | 4-12/10 |
| 13 | CLIFFORD A. & JOY M. WHITE | 4-12/10.3 |
| 14 | THOMAS L. & CLARA J. HAUGHT | 4-12/10.1 |
| 15 | CITY OF MOUNDSVILLE | 4-10/1 |
| 16 | CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT | 4-12/25 |
| 17 | CLIFFORD A. & JOY M. WHITE | 4-12/10.4 |
| 18 | CLIFFORD A. & JOY M. WHITE | 4-12/10.5 |
| 19 | THOMAS L. & CLARA J. HAUGHT | 4-12/9 |
| 20 | THOMAS L. & CLARA J. HAUGHT | 4-12/8 |
| 21 | THOMAS L. & CLARA J. HAUGHT | 4-12/7 |
| 22 | MERLE CHAPLIN ET UX | 4-12/3 |
| 23 | MERLE R. & JEAN E. CHAPLIN | 4-12/3.1 |

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4410845.57
 E:523390.81

NAD83_WV NORTH
 N:493082.920
 E:1624121.490

APPROX. LANDING POINT

UTM 17-NAD83(M)
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 E:523697.91

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 N:494974.898
 E:1625161.138

BOTTOM HOLE LOCATION (BHL)

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