

Well is located on topo map 13,960' feet south of Latitude: 39° 22' 30"

Well is located on topo map 3,551' feet west of Longitude: 81° 00' 00"

**PERMITTED  
BOTTOM HOLE LOCATION (BHL)**  
UTM 17-NAD83  
N:4356335.92  
E:496786.86  
NAD27, WV NORTH  
N:315634.07  
E:1565274.24  
LAT/LON DATUM-NAD83  
LAT:39.356466  
LON:-81.037295

**AS DRILLED  
BOTTOM HOLE LOCATION (BHL)**  
UTM 17-NAD83  
N:4356336.28  
E:496785.30  
NAD27, WV NORTH  
N:315635.34  
E:1565269.14  
LAT/LON DATUM-NAD83  
LAT:39.356470  
LON:-81.037313

LEASE	LESSORS
1	TERRY KESSLING ET AL
2	JOHN A. SMITH ET AL
3	COASTAL FOREST RESOURCES COMPANY
4	MARY JANE MATHESSE ET AL
5	JAMES P. JONES JR ET AL

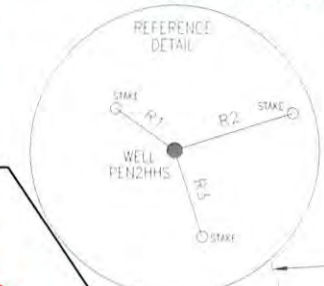
**LEGEND**

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- LEASE NUMBER
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- AS DRILLED

**EXISTING WELLS**

- EXISTING WELLS
- PLUGGED WELLS

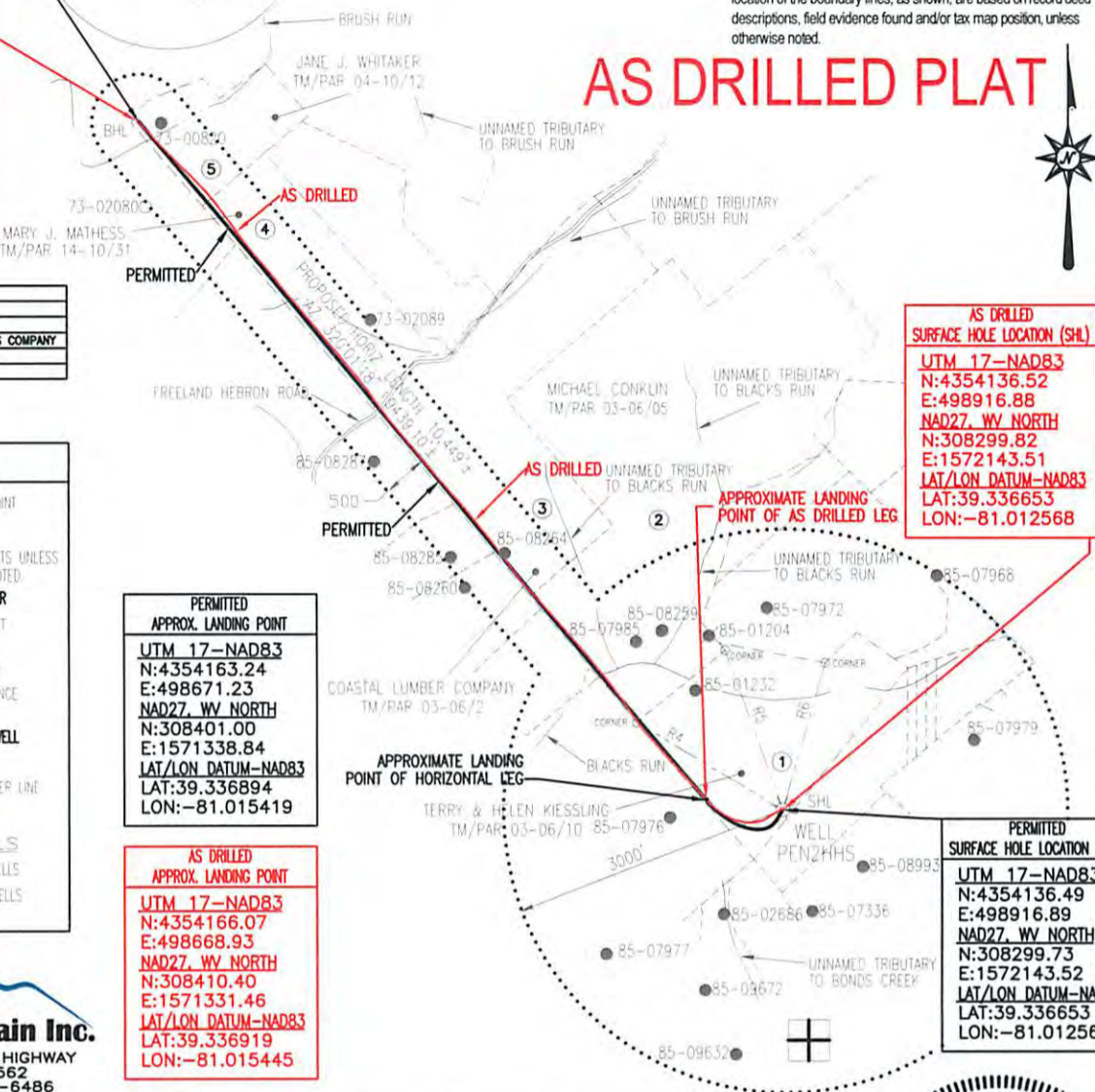
**Blue Mountain Inc.**  
10125 MASON DIXON HIGHWAY  
BURTON, WV 26562  
PHONE: (304) 662-6486



LINE	BEARING	DISTANCE
R1	N 53°50'58" W	149.56'
R2	N 72°28'22" E	257.11'
R3	S 17°37'04" E	187.65'
R4	N 58°44'52" W	1806.16'
R5	N 19°32'56" W	1811.34'
R6	N 16°05'47" E	1637.50'

- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
  - There are no existing buildings within 625' 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.

**AS DRILLED PLAT**



**PERMITTED  
APPROX. LANDING POINT**  
UTM 17-NAD83  
N:4354163.24  
E:498671.23  
NAD27, WV NORTH  
N:308401.00  
E:1571338.84  
LAT/LON DATUM-NAD83  
LAT:39.336894  
LON:-81.015419

**AS DRILLED  
APPROX. LANDING POINT**  
UTM 17-NAD83  
N:4354166.07  
E:498668.93  
NAD27, WV NORTH  
N:308410.40  
E:1571331.46  
LAT/LON DATUM-NAD83  
LAT:39.336919  
LON:-81.015445

**AS DRILLED  
SURFACE HOLE LOCATION (SHL)**  
UTM 17-NAD83  
N:4354136.52  
E:498916.88  
NAD27, WV NORTH  
N:308299.82  
E:1572143.51  
LAT/LON DATUM-NAD83  
LAT:39.336653  
LON:-81.012568

**PERMITTED  
SURFACE HOLE LOCATION (SHL)**  
UTM 17-NAD83  
N:4354136.49  
E:498916.89  
NAD27, WV NORTH  
N:308299.73  
E:1572143.52  
LAT/LON DATUM-NAD83  
LAT:39.336653  
LON:-81.012568

FILE #: PEN2HHS-AS DRILLED  
DRAWING #: PEN2HHS-AS DRILLED  
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: FEBRUARY 11, 2015  
OPERATOR'S WELL #: PEN2HHS-AS DRILLED  
API WELL #: 47 85 10073  
STATE OF WV PERMIT

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

WATERSHED: NORTH FORK HUGHES RIVER  
COUNTY/DISTRICT: RITCHIE / CLAY QUADRANGLE: ELLINGBOURNE 75'  
SURFACE OWNER: TERRY & HELEN KIESSLING ACREAGE: 79.242±  
OIL & GAS ROYALTY OWNER: TERRY KIESSLING ET AL ACREAGE: 514.618±

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: 6,314± TMD: 16,331±  
WELL OPERATOR NOBLE ENERGY, INC. DESIGNATED AGENT STEVEN M. GREEN  
Address 333 TECHNOLOGY DRIVE, SUITE 116 Address 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 590  
City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

06/12/2015