

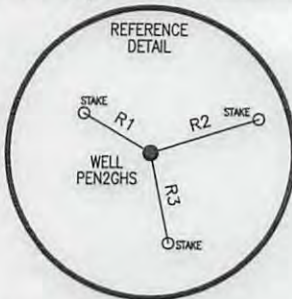
Well is located on topo map 13,953' feet south of Latitude: 39° 22' 30"

Well is located on topo map 3,545' feet west of Longitude: 81° 00' 00"

**SURFACE HOLE LOCATION (SHL)**

**UTM 17-NAD83**  
**N:4354138.67**  
**E:498922.57**  
 NAD27, WV NORTH  
 N:308306.57  
 E:1572162.31  
 LAT/LON DATUM-NAD83  
 LAT:39.336673  
 LON:-81.012502

LINE	BEARING	DISTANCE
R1	N 59°44'40" W	161.55'
R2	N 72°40'53" E	237.13'
R3	S 11°34'02" E	189.54'
R4	N 59°14'20" W	1818.75'
R5	N 20°10'53" W	1811.29'
R6	N 15°31'37" E	1625.80'



**NOTES:**

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
6. 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.

**APPROX. LANDING POINT**

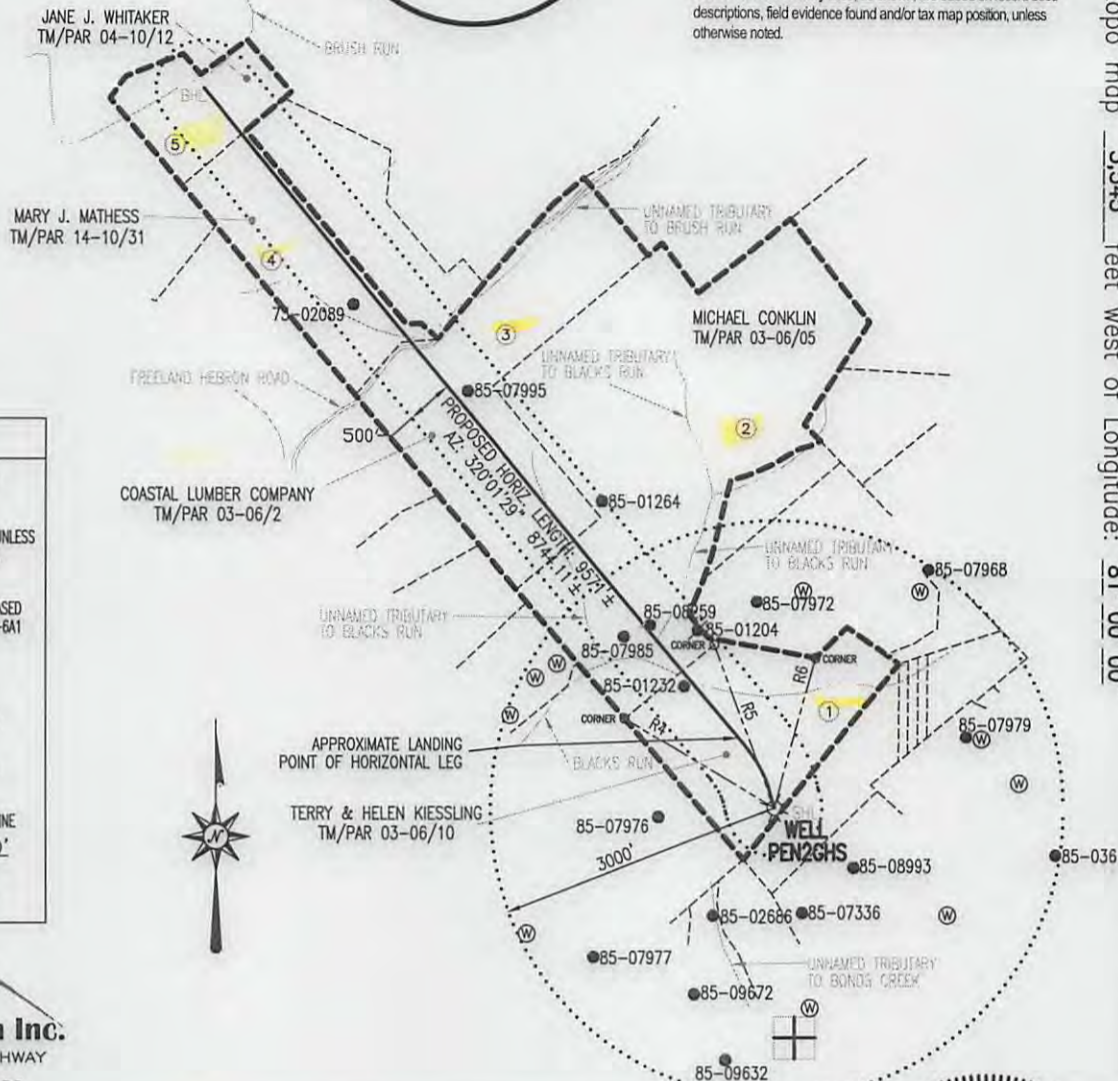
**UTM 17-NAD83**  
**N:4354358.31**  
**E:498805.83**  
 NAD27, WV NORTH  
 N:309033.75  
 E:1571791.24  
 LAT/LON DATUM-NAD83  
 LAT:39.338652  
 LON:-81.013857

**BOTTOM HOLE LOCATION (BHL)**

**UTM 17-NAD83**  
**N:4356371.11**  
**E:497060.31**  
 NAD27, WV NORTH  
 N:315734.55  
 E:1566173.53  
 LAT/LON DATUM-NAD83  
 LAT:39.356785  
 LON:-81.034121

**LEGEND**

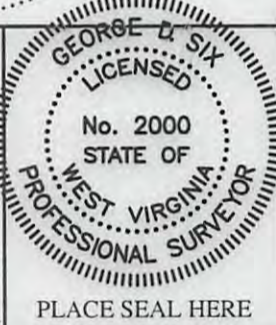
- ⊕ - TOPO MAP POINT
- ☼ - WELL
- - ALL ARE POINTS UNLESS OTHERWISE NOTED.
- ⊙ - WATER SOURCE
- ⊙ - BEARING NUMBER BASED ON ATTACHED WW-6A1
- - - - - MINERAL TRACT
- - - - - PROPOSED PARCEL LINES
- - - - - WGA REFERENCE
- - - - - HORIZONTAL WELL
- - - - - STREAM CENTER LINE
- WELLS WITHIN 3000'
- - EXISTING WELLS
- - PLUGGED WELLS



**Blue Mountain Inc.**  
 11023 MASON DIXON HIGHWAY  
 BURTON, WV 25562  
 PHONE: (304) 662-6486

FILE #: PEN2GHS  
 DRAWING #: PEN2GHS  
 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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: OCTOBER 15, 2013  
 OPERATOR'S WELL #: PEN2GHS  
 API WELL #: 47 85 10072  
 STATE COUNTY PERMIT

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

WATERSHED: NORTH FORK HUGHES RIVER ELEVATION: 1084'±

COUNTY/DISTRICT: RITCHIE / CLAY QUADRANGLE: ELLENBORO, WV 7.5'

SURFACE OWNER: TERRY & HELEN KIESSLING ACREAGE: 79.242±

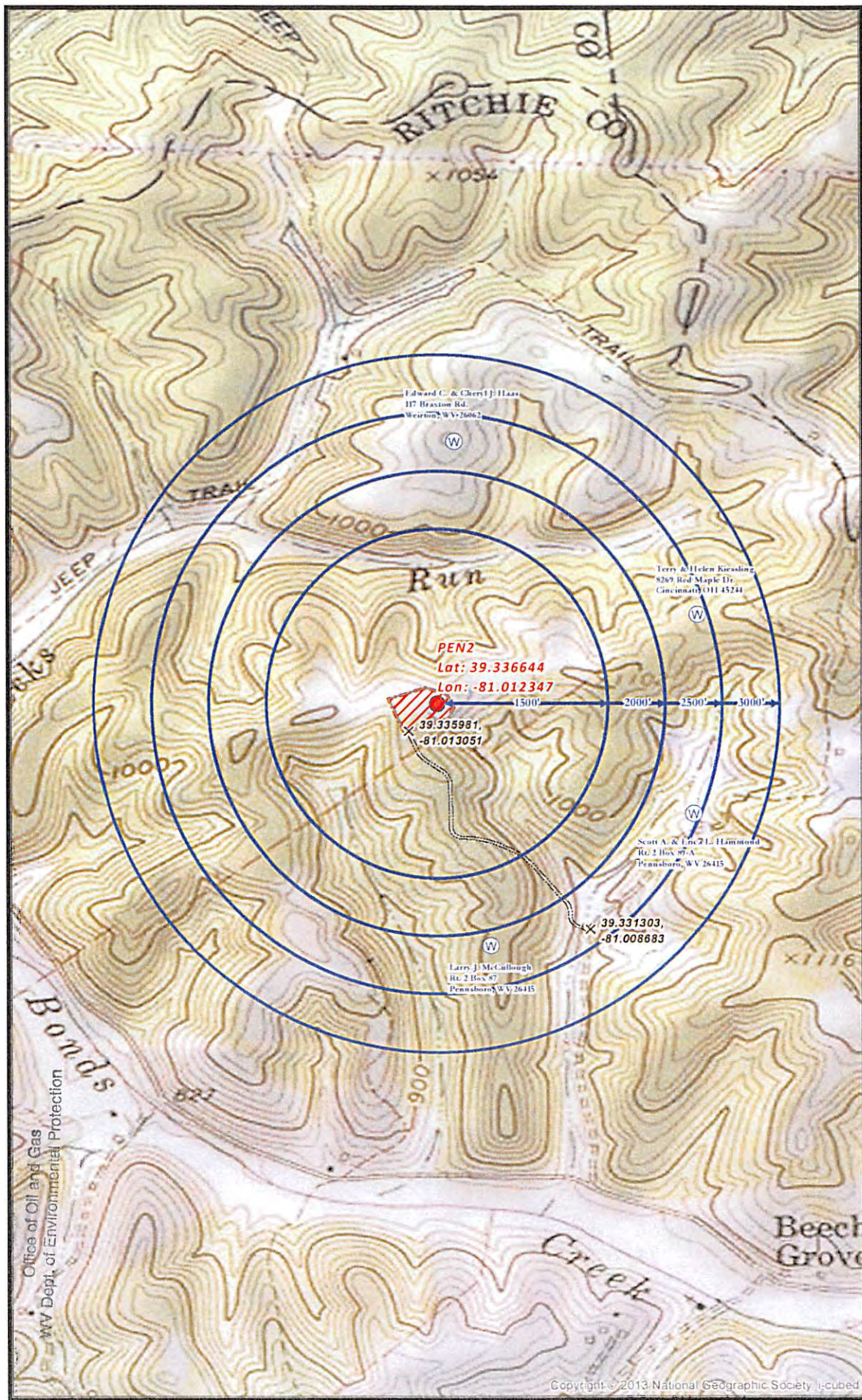
OIL & GAS ROYALTY OWNER: SEE ATTACHED WW-6A1 ACREAGE: 514.582±

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: 15,563'±

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

Plot spotted  
85 10072



Received

SEP 23 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

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<p><b>PENS2 SITE SAFETY PLAN</b> - WATER WELLS PROXIMITY -</p>	<p>0 500 1,000 2,000 Feet</p> <p>Scale 1" = 1,000'</p> <p>Projection: NAD_1983_StatePlane_WestVirginia_North_FIPS_5003 Units: Feet US</p>	<p><b>noble energy</b></p>	<p>Date: 7/31/2013</p> <p>Author: Christopher Glaser</p>
<p>Water Well Buffer Proposed Road Road Intersection Well Pad Boundary</p>	<p>Disclaimer: All data is licensed for use by Noble Energy Inc. use only.</p>	<p>6/6</p>	<p>6/6</p>

Document Path: G:\Denver\GIS-Denver\Projects\District\_30\_Appalsco\MapDocs\ENSR\Permitting\pennsboro\_PEN2\Map\_PA\_WV\_PEN2\_Water\_Wells.mxd