

WATER WELLS:
NONE FOUND

LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- WATER SOURCE
- LEASED NUMBER BASED ON ATTACHED WW6A1
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD
- COUNTY LINE

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83
N: 4355179.037
E: 500244.705
NAD27, WV NORTH
N: 311648.034
E: 1576557.973
LAT/LON DATUM-NAD83
LAT: 39.34604790
LON: -80.99716015

APPROX. LANDING POINT

UTM 17 - NAD83
N: 4355285.327
E: 500371.573
NAD27, WV NORTH
N: 311989.866
E: 1576980.119
LAT/LON DATUM-NAD83
LAT: 39.34700561
LON: -80.99568777

BOTTOM HOLE LOCATION

UTM 17 - NAD83
N: 4353123.848
E: 502247.674
NAD27, WV NORTH
N: 304793.953
E: 1583018.196
LAT/LON DATUM-NAD83
LAT: 39.32752604
LON: -80.97392221

Well is located on topo map 10,980 feet west of Longitude: 80° 57' 30"



- 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 herein. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

LINE TABLE

| LINE | BEARING | DISTANCE |
|------|-------------|----------|
| R1 | S66°55'10"W | 496.57' |
| R2 | S03°35'45"W | 402.96' |
| R3 | N88°37'30"E | 501.81' |
| R4 | N43°24'44"E | 861.69' |
| R5 | S38°29'50"W | 679.96' |



PVE Sheffler
Engineering • Surveying • Design
Waterfront Corporate Park III, Suite 101
2000 Georgetowne Drive
Sewickley, PA 15143-8992
Phone: 724-444-1100

FILE #: PEN31B
DRAWING #: PEN31B
SCALE: 1"=1500'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: USGS MONUMENT V 131: 772.87'

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.: 18766 L.L.S.: P.S. NO. _____

STATE OF WEST VIRGINIA
REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. BENTLEY
19786
PLACE SEAL HERE

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

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

WATERSHED: OUTLET MIDDLE ISLAND CREEK ELEVATION: 1113.68'
COUNTY/DISTRICT: TYLER / MEADE QUADRANGLE: PENNSBORO, WV
SURFACE OWNER: NOBLE ENERGY INC. ACREAGE: 29.84 AC.
OIL & GAS ROYALTY OWNER: BARBARA & BUDDIE BUNNER, ET AL. ACREAGE: 29.84 AC.

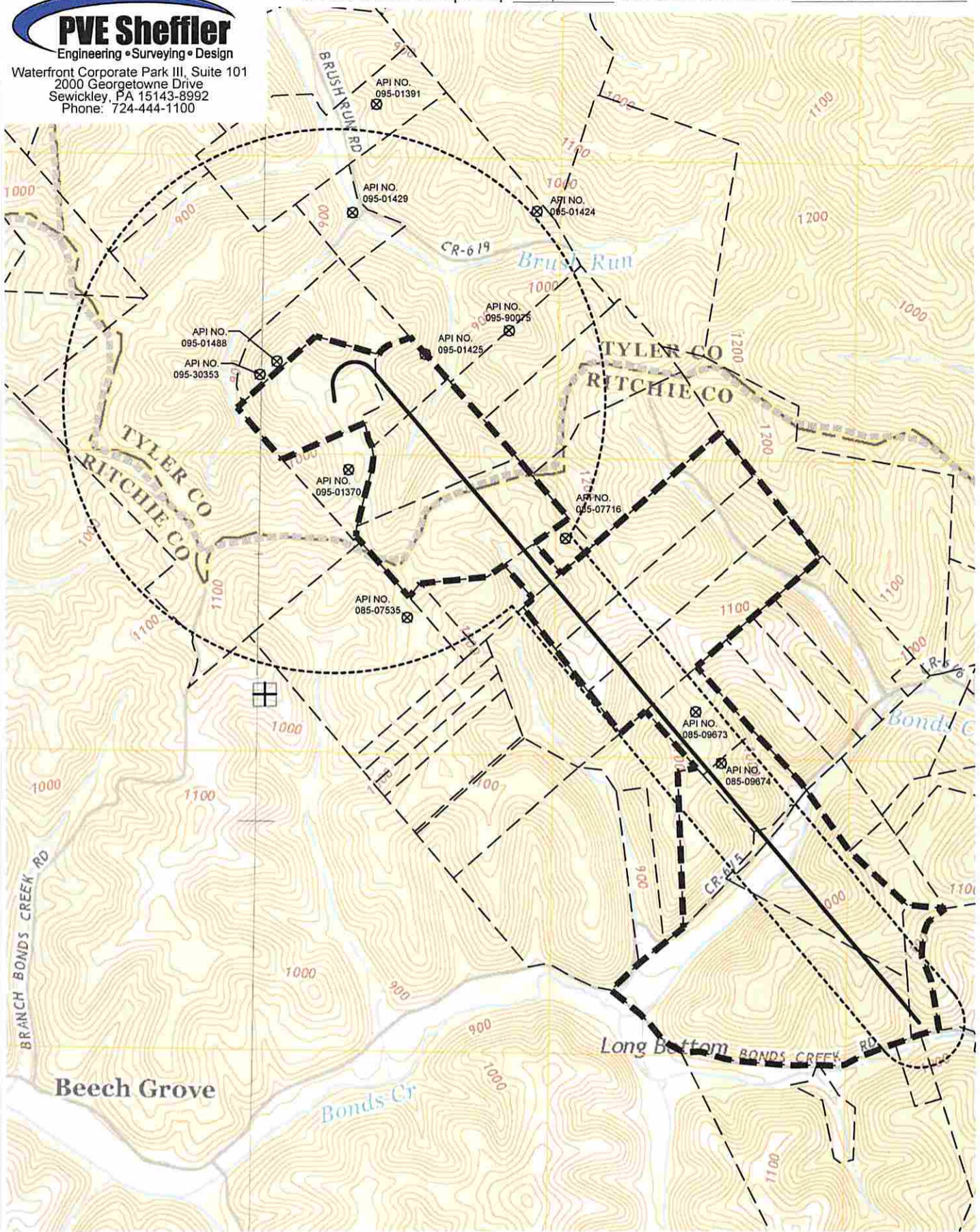
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) _____

TARGET FORMATION: MARCELLUS
WELL OPERATOR: NOBLE ENERGY, INC.
Address: 1000 NOBLE ENERGY DRIVE
City CANONSBURG State PA Zip Code 15317

DATE: APRIL 10, 2015
OPERATOR'S WELL #: PEN31B
API WELL # 47 095 02258 ^{46A}
STATE COUNTY PERMIT

ESTIMATED DEPTH: TVD: 6,331 ± TMD: 16,521 ±
DESIGNATED AGENT: JESSICA ALSOP
Address: 301 GOLDEN EAGLE DRIVE
City MORGANTOWN State WV Zip Code 26508

07/03/2015



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



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 City CANONSBURG State PA Zip Code 15317 City MORGANTOWN State WV Zip Code 26508