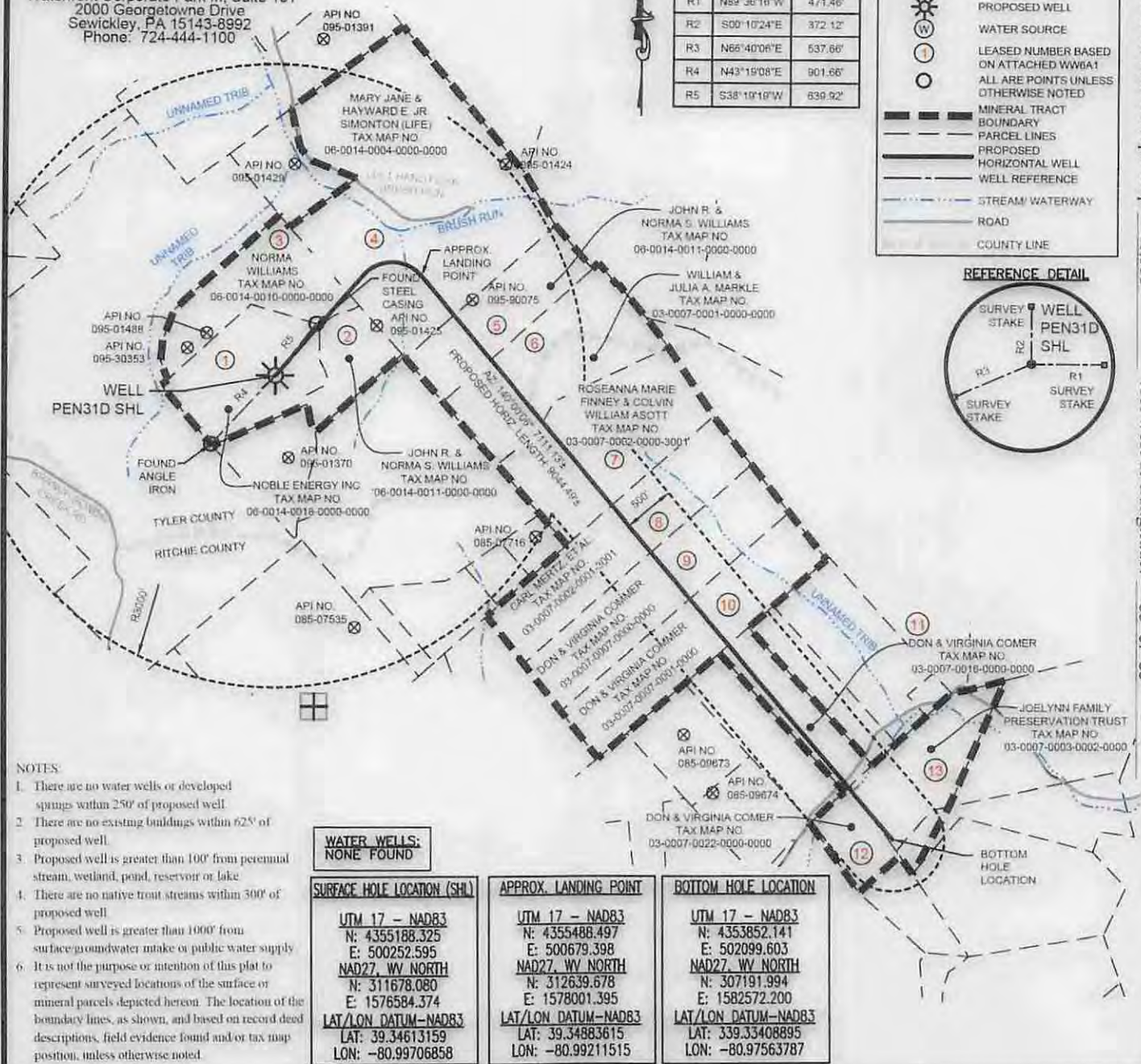


LINE	BEARING	DISTANCE
R1	N89°36'16"W	471.46'
R2	S00°10'24"E	372.12'
R3	N66°40'06"E	537.66'
R4	N43°19'08"E	901.66'
R5	S38°19'10"W	639.92'

LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- WATER SOURCE
- LEASED NUMBER BASED ON ATTACHED WVA1
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- PROPOSED
- HORIZONTAL WELL
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD
- COUNTY LINE

REFERENCE DETAIL



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, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

WATER WELLS:
NONE FOUND

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83
N: 4355188.325
E: 500252.595
NAD27, WV NORTH
N: 311678.080
E: 1576584.374
LAT/LON DATUM-NAD83
LAT: 39.34613159
LON: -80.99706858

APPROX. LANDING POINT

UTM 17 - NAD83
N: 4355488.497
E: 500679.398
NAD27, WV NORTH
N: 312639.678
E: 1578001.395
LAT/LON DATUM-NAD83
LAT: 39.34883615
LON: -80.99211515

BOTTOM HOLE LOCATION

UTM 17 - NAD83
N: 4353852.141
E: 502099.603
NAD27, WV NORTH
N: 307191.994
E: 1582572.200
LAT/LON DATUM-NAD83
LAT: 339.33408895
LON: -80.97563787

FILE #: PEN31D
DRAWING #: PEN31D
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. _____



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

DATE: APRIL 10, 2015
OPERATOR'S WELL #: PEN31D
API WELL # 47 095 02760 HLA
STATE COUNTY PERMIT

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

WATERSHED: OUTLET MIDDLE ISLAND CREEK ELEVATION: 1117.64'
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 ESTIMATED DEPTH: TVD: 6,331 + TMD: 14,240' 14,455'
WELL OPERATOR: NOBLE ENERGY, INC. DESIGNATED AGENT: JESSICA ALSOP
Address: 1000 NOBLE ENERGY DRIVE Address: 301 GOLDEN EAGLE DRIVE
City CANONSBURG State PA Zip Code 15317 City MORGANTOWN State WV Zip Code 26508

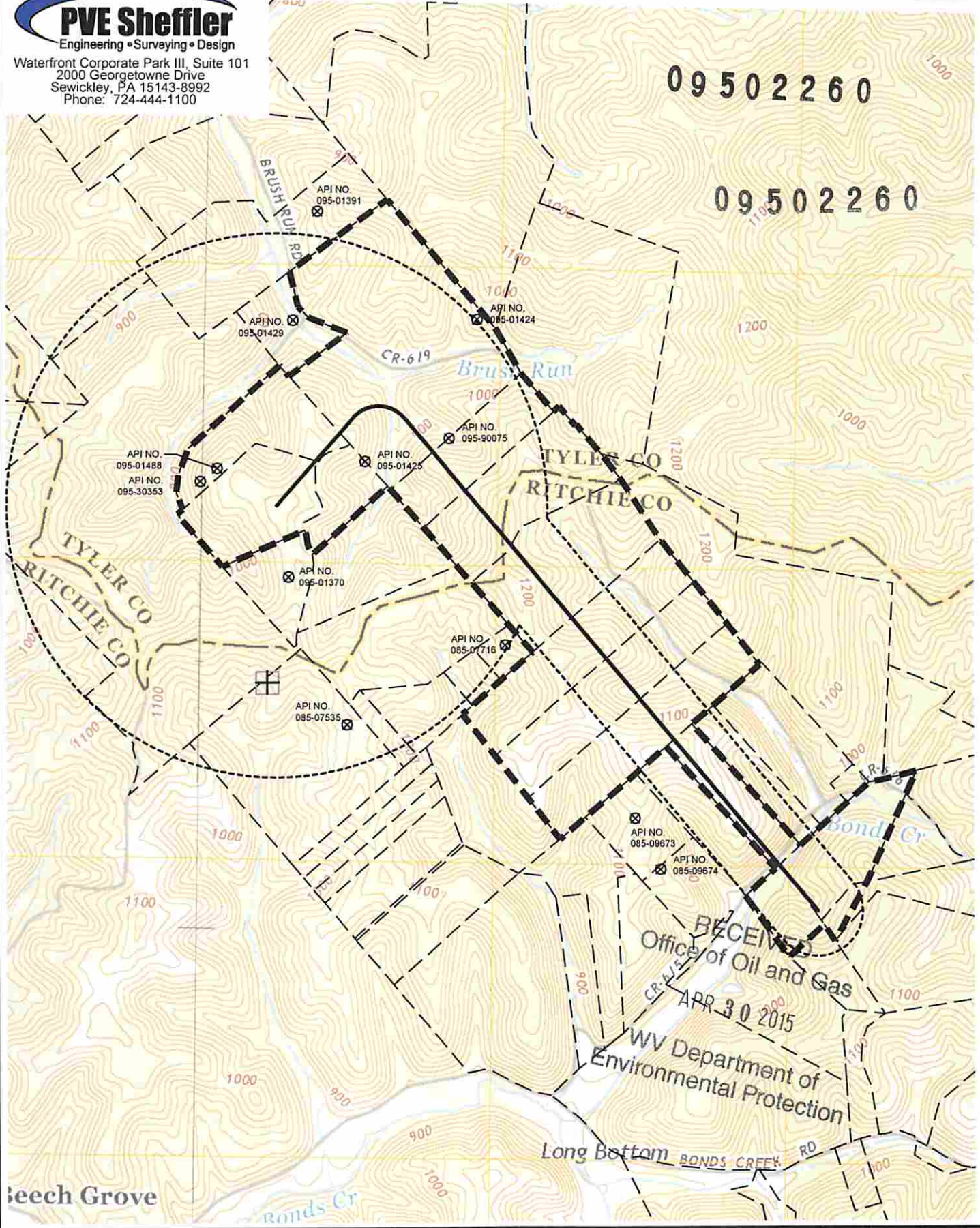
07/03/2015

Well is located on topo map 10,955 feet west of Longitude: 80° 57' 30"

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

Well is located on topo map 10,514 feet south of Latitude: 39° 22' 30"

Well is located on topo map 10,955 feet west of Longitude: 80° 57' 30"



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