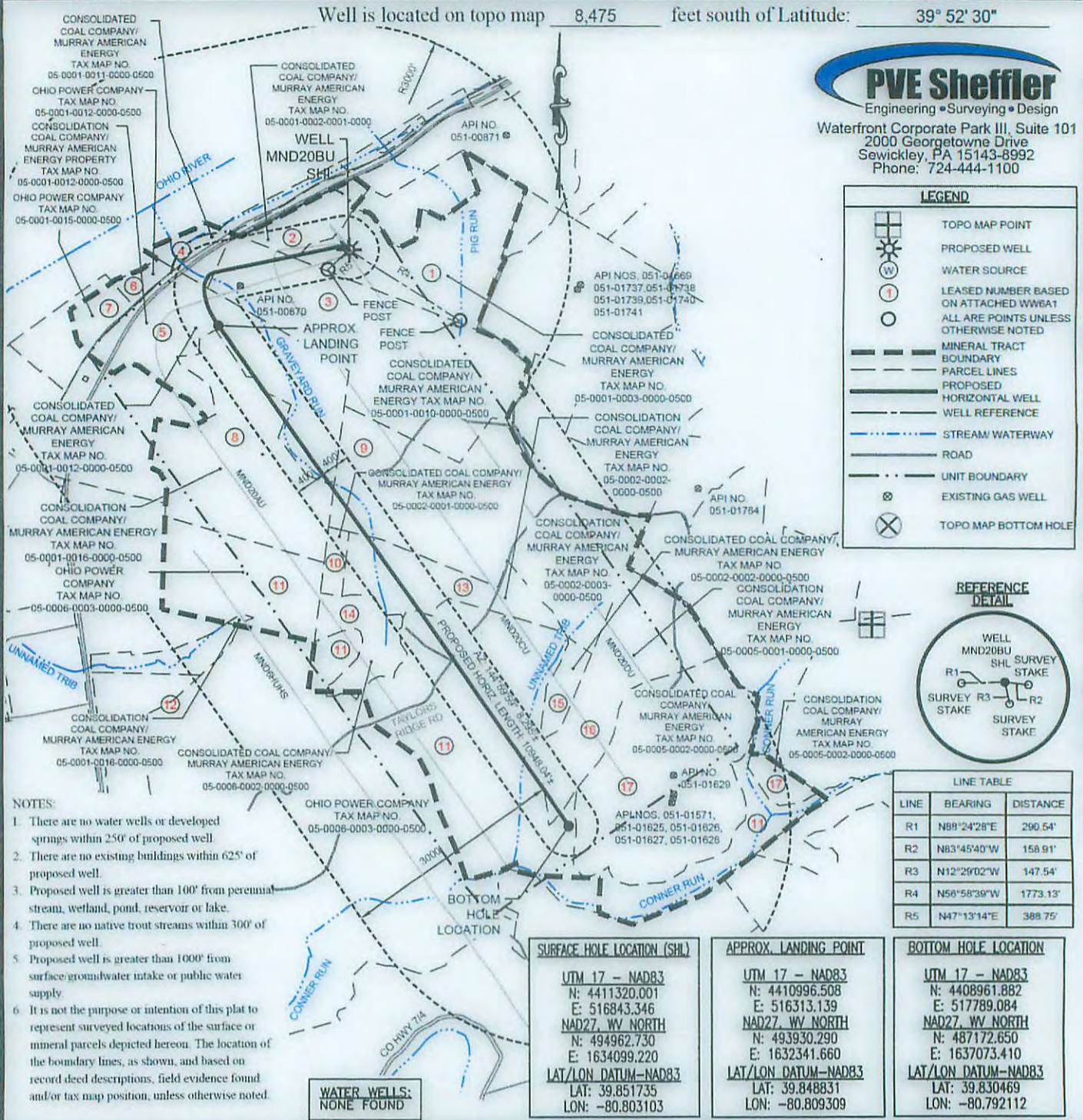


Well is located on topo map 8,475 feet south of Latitude: 39° 52' 30"

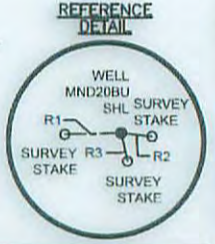
**PVE Sheffler**  
Engineering • Surveying • Design  
Waterfront Corporate Park III, Suite 101  
2000 Georgetowne Drive  
Sewickley, PA 15143-8992  
Phone: 724-444-1100

Well is located on topo map 3,211 feet west of Longitude: 80° 47' 30"



**LEGEND**

- TOPO MAP POINT
- PROPOSED WELL
- WATER SOURCE
- LEASED NUMBER BASED ON ATTACHED WVA61 ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD
- UNIT BOUNDARY
- EXISTING GAS WELL
- TOPO MAP BOTTOM HOLE



**LINE TABLE**

LINE	BEARING	DISTANCE
R1	N89°24'28"E	290.54'
R2	N83°45'40"W	158.91'
R3	N12°29'02"W	147.54'
R4	N56°58'39"W	1773.13'
R5	N47°13'14"E	388.75'

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

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION
UTM 17 - NAD83 N: 4411320.001 E: 516843.346 NAD27, WV NORTH N: 494962.730 E: 1634099.220 LAT/LON DATUM-NAD83 LAT: 39.851735 LON: -80.803103	UTM 17 - NAD83 N: 4410996.508 E: 516313.139 NAD27, WV NORTH N: 493930.290 E: 1632341.660 LAT/LON DATUM-NAD83 LAT: 39.848831 LON: -80.809309	UTM 17 - NAD83 N: 4408961.882 E: 517789.084 NAD27, WV NORTH N: 487172.650 E: 1637073.410 LAT/LON DATUM-NAD83 LAT: 39.830469 LON: -80.792112

WATER WELLS:  
NONE FOUND

FILE #: MND 20 BU  
DRAWING #: MND 20 BU  
SCALE: 1"=2000'  
MINIMUM DEGREE OF ACCURACY: 1/2500  
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT H 138: 638.58'

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:

R.P.E.: 21452 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: AUGUST 19, 2015 - REV: OCTOBER 15, 2015

OPERATOR'S WELL #: MND 20 BU

API WELL # 47 051 0186846A  
STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1080.18'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: POWHATAN POINT, W. VA./OHIO

SURFACE OWNER: CONSOLIDATION COAL COMPANY/ MURRAY ENERGY ACREAGE: 70.55

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 70.55

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: POINT PLEASANT ESTIMATED DEPTH: TVD: 10,742' ± TMD: 19,960±

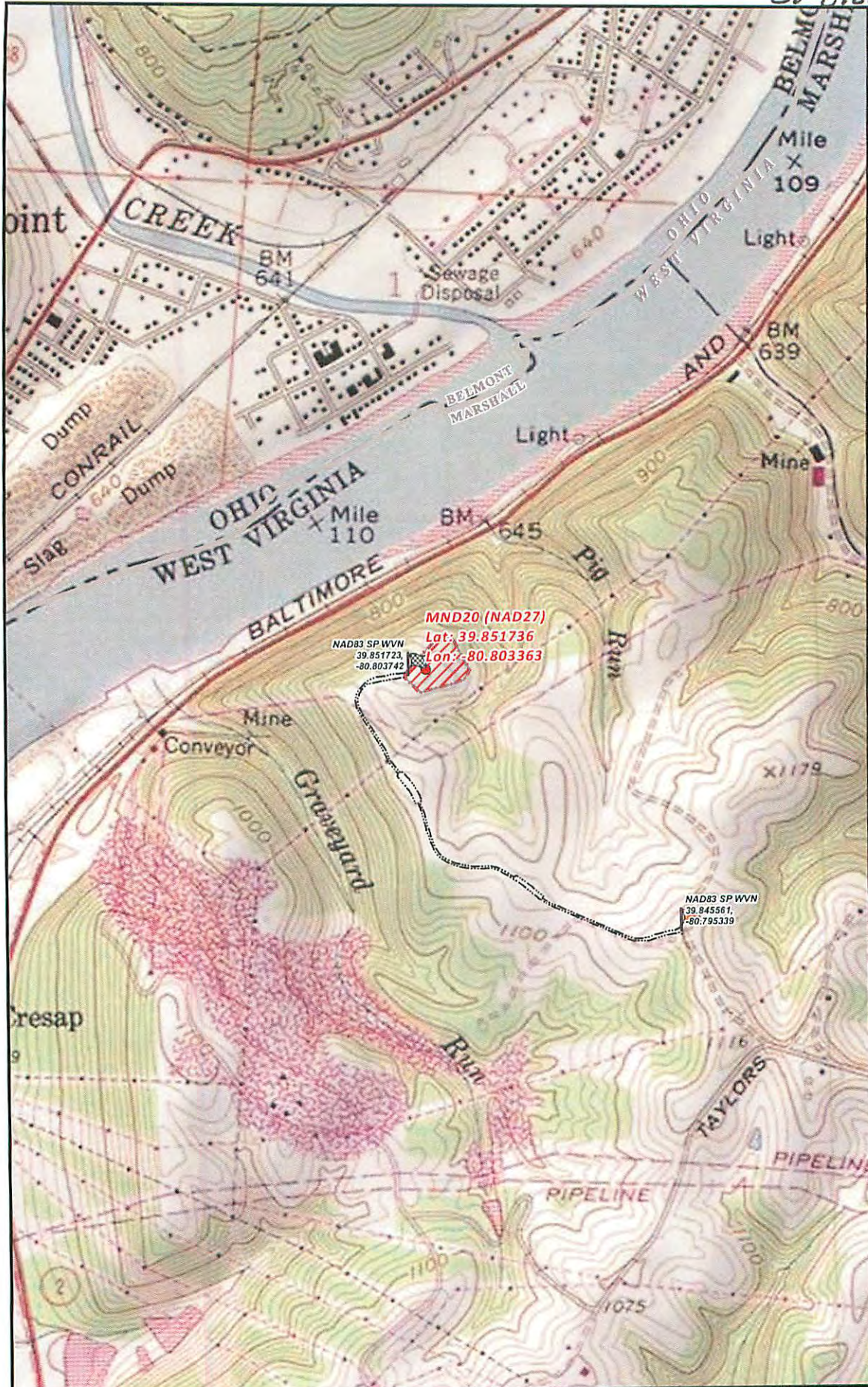
WELL OPERATOR: NOBLE ENERGY, INC. DESIGNATED AGENT: JESSICA ALSOP

Address: 1000 NOBLE ENERGY DRIVE Address: 1031 BRETTWALD DRIVE

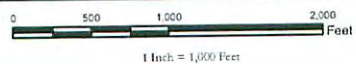
City CANONSBURG State PA Zip Code 15317 City MORGANTOWN State WV Zip Code 26508

12/11/2015





**MND 20 SITE SAFETY PLAN**  
- SITE WELL LOCATION -



Date: 8/6/2015

Author: Christopher Glover

- Site Entrance
- Well Pad
- Proposed Access Road
- Well Pad Boundary

Projection: NAD 1927 UTM Zone 17N  
Units: Foot US  
\*\*Disclaimer: All data is licensed for use by Noble Energy Inc. use only.\*\*



12/11/2015