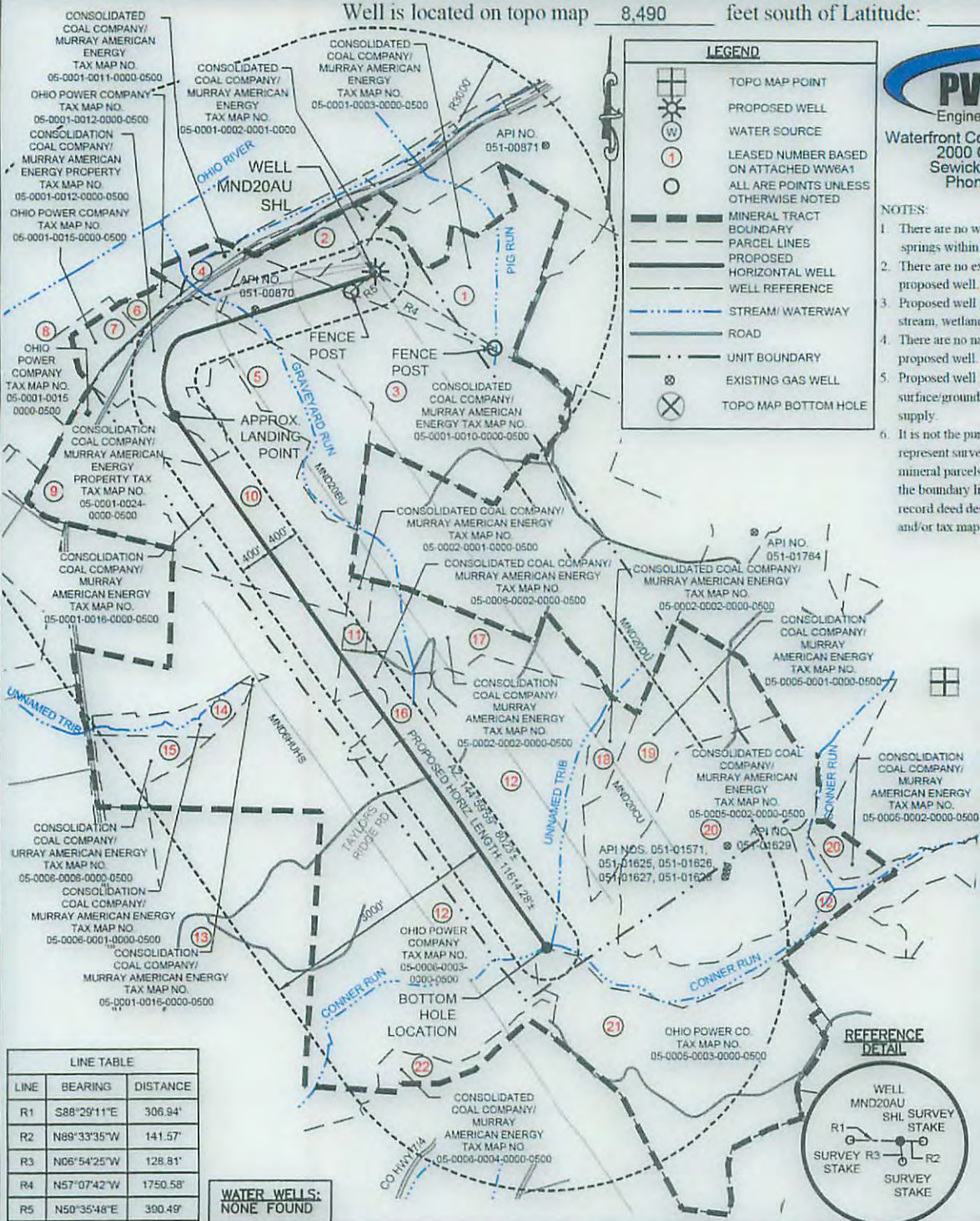


Well is located on topo map 8,490 feet south of Latitude: 39° 52' 30"

**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 3,194 feet west of Longitude: 80° 47' 30"



- 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)**  
UTM 17 - NAD83  
N: 4411315.167  
E: 516848.422  
NAD27, WV NORTH  
N: 494946.590  
E: 1634115.610  
LAT/LON DATUM-NAD83  
LAT: 39.851691  
LON: -80.803044

**APPROX. LANDING POINT**  
UTM 17 - NAD83  
N: 4410763.921  
E: 516105.426  
NAD27, WV NORTH  
N: 493178.460  
E: 1631647.320  
LAT/LON DATUM-NAD83  
LAT: 39.846739  
LON: -80.811743

**BOTTOM HOLE LOCATION**  
UTM 17 - NAD83  
N: 4408785.313  
E: 517540.732  
NAD27, WV NORTH  
N: 486606.870  
E: 1636248.790  
LAT/LON DATUM-NAD83  
LAT: 39.828883  
LON: -80.795019

**LINE TABLE**

LINE	BEARING	DISTANCE
R1	S88°29'11"E	306.94'
R2	N89°33'35"W	141.57'
R3	N06°54'25"W	128.81'
R4	N57°07'42"W	1750.58'
R5	N50°35'48"E	390.49'

**WATER WELLS:**  
NONE FOUND



FILE #: MND 20 AU  
DRAWING #: MND 20 AU  
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: [Signature]  
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 AU

API WELL # 47 051 0186744  
STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1079.23'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: POWATAN 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: 20,229' ±

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





- Well Pad
- ✱ Offset Well Pad
- ⛔ Church (W)
- + Other Landmark
- ⚙ School
- Evacuation Route
- Well Pad Boundary
- 1 Mile Evacuation Buffer
- Counties
- States

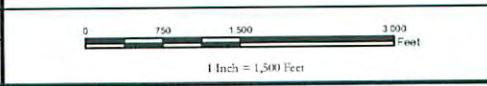
**Site Evacuation Route Directions - MND20 Well Pad**

Exit the Pad Site heading Southeast via the Access Rd. Turn right, heading Southeast, on Taylors Ridge Rd (Go 0.25 Miles). Continue on Taylors Ridge Rd heading East (Go 0.3 Miles). Access road entrance for MND20 will be on the left.

**MND 20 SITE SAFETY PLAN**  
- SITE EVACUATION PLAN -

Author: Christopher Glover  
Date: 8/10/2015

Projection: NAD 1983 StatePlane West Virginia North FIPS 4701  
Units: Feet U.S.  
**\*\* Disclaimer: All data is licensed for use by Noble Energy Inc. use only. \*\***



**noble energy**

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12/11/2015  
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