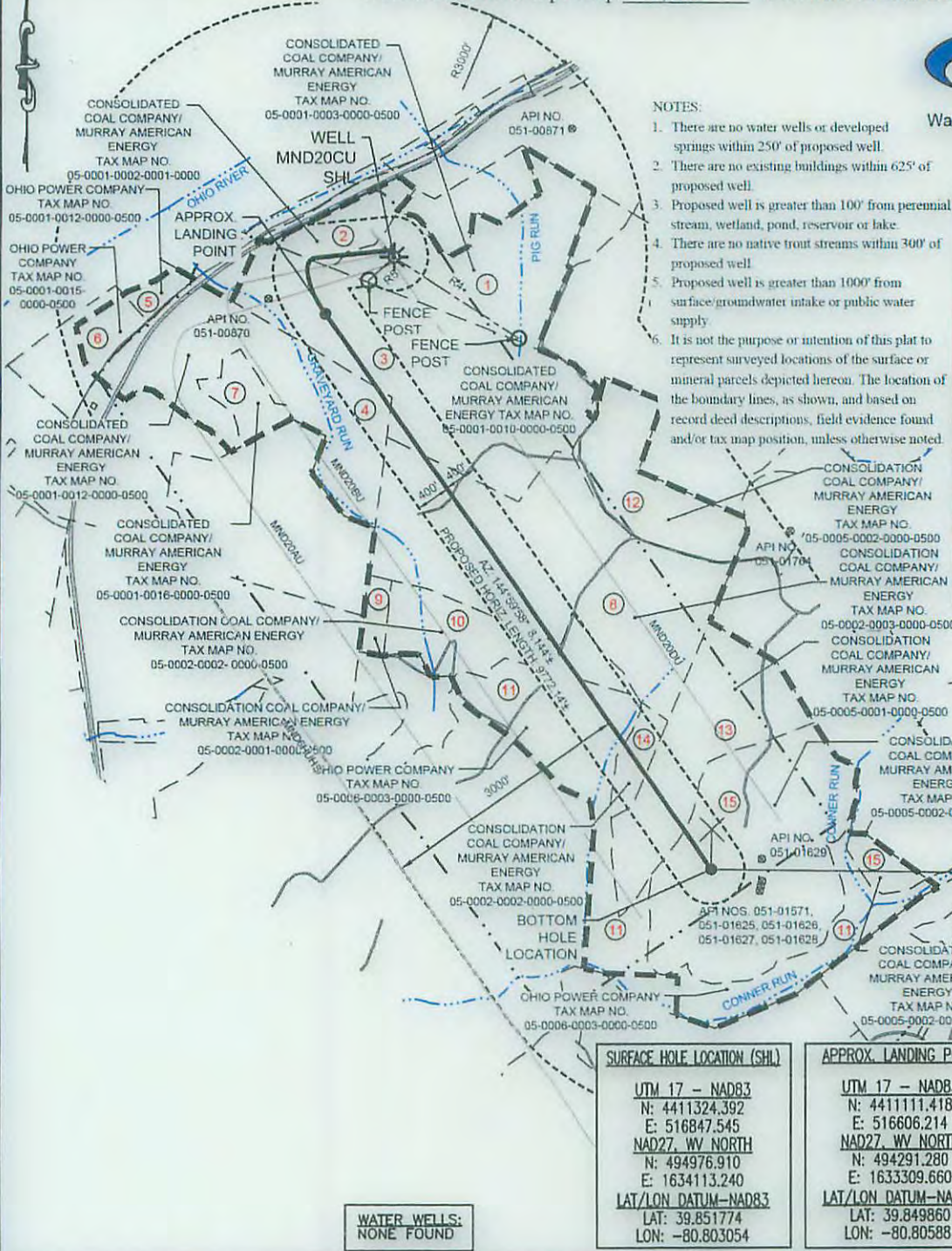


Well is located on topo map 8,460 feet south of Latitude: 39° 52' 30"

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

Well is located on topo map 3,197 feet west of Longitude: 80° 47' 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 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.

LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- WATER SOURCE
- LEASED NUMBER BASED ON ATTACHED W/EA1 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	N85°49'10"E	305.26'
R2	N77°40'32"W	147.34'
R3	N06°26'41"W	159.24'
R4	N56°20'42"W	1769.21'
R5	N47°05'47"E	408.88'

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION
UTM 17 - NAD83 N: 4411324.392 E: 516847.545 NAD27, WV NORTH N: 494976.910 E: 1634113.240 LAT/LON DATUM-NAD83 LAT: 39.851774 LON: -80.803054	UTM 17 - NAD83 N: 4411111.418 E: 516606.214 NAD27, WV NORTH N: 494291.280 E: 1633309.660 LAT/LON DATUM-NAD83 LAT: 39.849860 LON: -80.805881	UTM 17 - NAD83 N: 4409138.449 E: 518037.435 NAD27, WV NORTH N: 487738.420 E: 1637898.030 LAT/LON DATUM-NAD83 LAT: 39.832055 LON: -80.789205

WATER WELLS:
NONE FOUND

FILE #: MND 20 CU
DRAWING #: MND 20 CU
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

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

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1079.21'
COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: POWHATAN POINT, W. VA./OHIO
SURFACE OWNER: CONSOLIDATION COAL COMPANY/ MURRAY AMERICAN ENERGY ACREAGE: 70.55
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 70.55

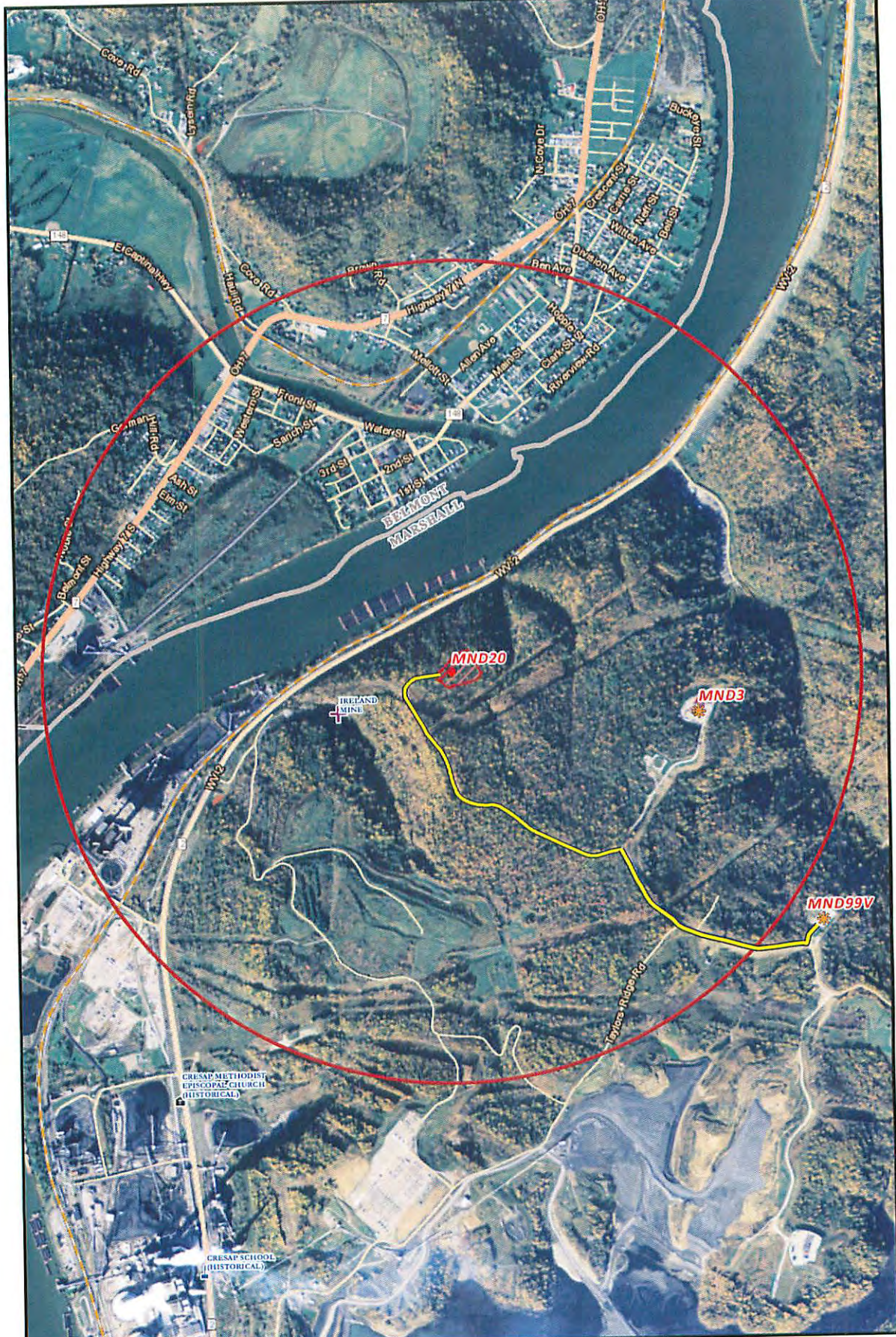
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 10,742' ± TMD: 19,356±
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



DATE: AUGUST 19, 2015 - REV: OCTOBER 15, 2015
OPERATOR'S WELL #: MND 20 CU
API WELL # 47 051 01869HUA
STATE COUNTY PERMIT

12/11/2015



- Well Pad
- ✱ Offset Well Pad
- ⛪ Church (WV)
- + Other Landmark
- ⚓ School
- Evacuation Route
- Well Pad Boundary
- 1 Mile Evacuation Buffer
- Counties
- States

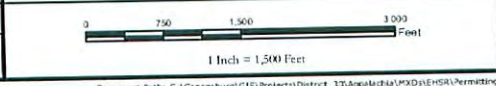
Site Evacuation Route Directions - MND20 Well Pad

Exit the Pad Site heading Southeast via the Access Rd. Turn right, heading Southeast, on Taylor's Ridge Rd (Go 0.25 Miles). Continue on Taylor's 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 US
**** Disclaimer: All data is licensed for use by Noble Energy Inc. use only. ****



noble energy

12/11/2015