

- 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.
 7. Parcel coded as 300 is also bounded by parcels coded as (from North to South): 374, 368, 306, 302, 301, and 309.
 8. Parcel coded as 206 has all adjacent parcels shown on map.

REFERENCE DETAIL

WELL MND20DU SHL SURVEY STAKE
 SURVEY STAKE R1 SURVEY STAKE R2 SURVEY STAKE R3

LEGEND

- ☼ PROPOSED WELL
- (W) WATER SOURCE
- 100 REFERENCE NUMBER FOR SURFACE PARCEL OWNER
- ① REFERENCE NUMBER FOR MINERAL OWNERSHIP
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- - - PARCEL LINES
- PROPOSED HORIZONTAL WELL
- - - WELL REFERENCE
- STREAM WATERWAY
- ROAD
- UNIT BOUNDARY
- ⊗ EXISTING GAS WELL

WATER WELLS: NONE FOUND

PVE ENGINEERING
 Civil Engineering | Land Development | Structure Design
 Land Planning | Landscape Architecture | Environmental

FILE #: MND 20 DU
 DRAWING #: MND 20 DU
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE U.S.G.S. MONUMENT
 OF ELEVATION: 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: 1058'
 COUNTY/DISTRICT: MARSHALL / FRANKLIN 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: 10,700' ± TMD: 27,990 ±
 WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
 Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
 City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

DATE: AUGUST 19, 2015 - REV: MAY 11, 2018
 OPERATOR'S WELL #: MND 20 DU
 API WELL # 47 051 02014 H6A
 STATE COUNTY PERMIT
 PAGE: 1 OF 4

06/29/2018

Bottom Hole is located on topo map 5,594 feet south of Latitude: 39° 50' 00"

Well is located on topo map 8,503 feet south of Latitude: 39° 52' 30"

Bottom Hole is located on topo map 3,682 feet west of Longitude: 80° 45' 00"
 Well is located on topo map 3,233 feet west of Longitude: 80° 47' 30"

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83
 N: 4411319.587
 E: 516852.608
 NAD27, WV NORTH
 N: 494960.858
 E: 1634129.590
 LAT/LON DATUM-NAD83
 LAT: 39.851731
 LON: -80.802995

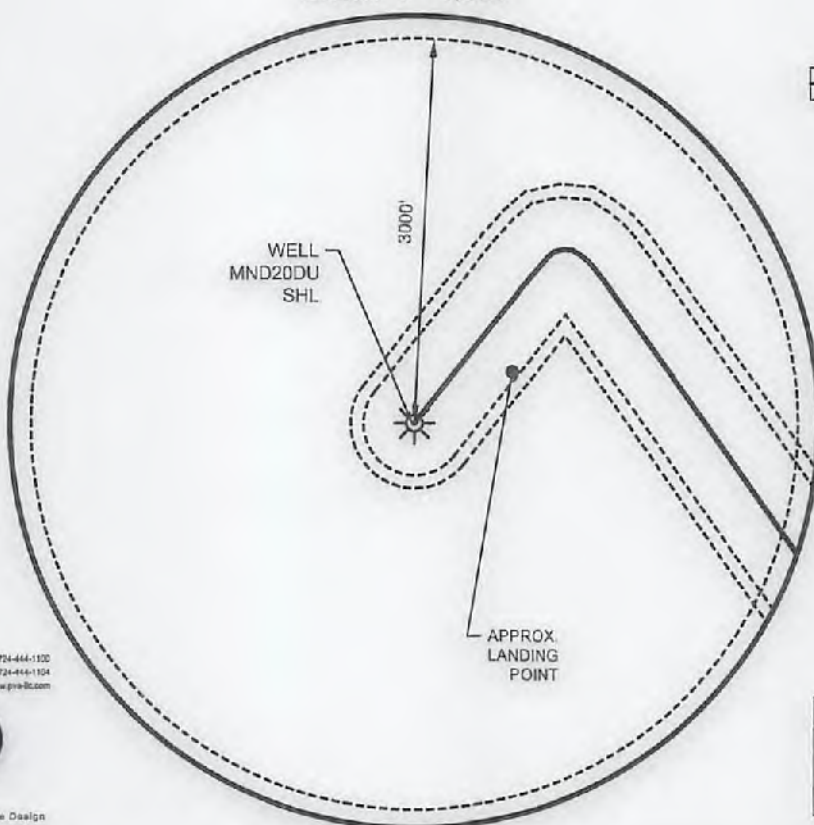
APPROX. LANDING POINT

UTM 17 - NAD83
 N: 4411643.822
 E: 517317.408
 NAD27, WV NORTH
 N: 495999.323
 E: 1635672.560
 LAT/LON DATUM-NAD83
 LAT: 39.854643
 LON: -80.797553

BOTTOM HOLE LOCATION

UTM 17 - NAD83
 N: 4407581.492
 E: 520274.459
 NAD27, WV NORTH
 N: 482506.464
 E: 1645153.367
 LAT/LON DATUM-NAD83
 LAT: 39.817976
 LON: -80.763110

DETAIL:
 SCALE: 1"=1,500'



LEGEND	
	TOPO MAP POINT
	TOPO MAP BOTTOM HOLE

Washington Corporate Park II, Suite 101
 2022 Georgetown Drive
 Newark, PA 15143

P: 724-444-1100
 F: 724-444-1104
 www.pve3.com



Civil Engineering | Land Development | Structure Design
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DATE: AUGUST 19, 2015 - REV: MAY 11, 2018

OPERATOR'S WELL #: MND 20 DU

API WELL # 47 051 0201446A
 STATE COUNTY PERMIT

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

PAGE: 2 OF 4

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