

**SURFACE HOLE LOCATION (SHL)**

UTM 17 - NAD83  
 N: 4411110.407  
 E: 519307.925  
 NAD27, WV NORTH  
 N: 494139.648  
 E: 1642175.083  
 LAT/LON DATUM=NAD83  
 LAT: 39.849794  
 LON: -80.774299

**APPROX. LANDING POINT**

UTM 17 - NAD83  
 N: 4410962.551  
 E: 519431.917  
 NAD27, WV NORTH  
 N: 493647.654  
 E: 1642573.851  
 LAT/LON DATUM=NAD83  
 LAT: 39.848459  
 LON: -80.772854

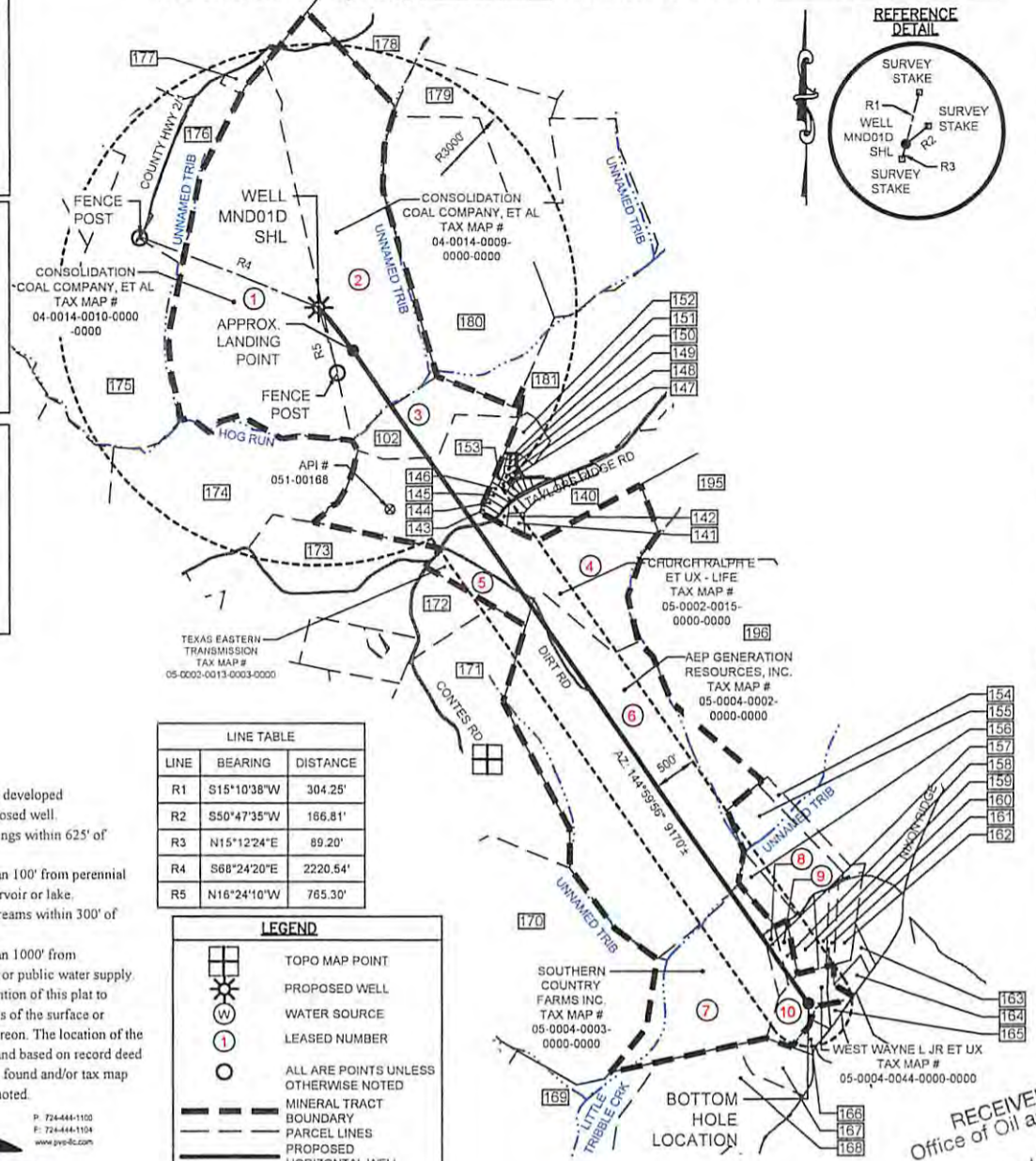
**BOTTOM HOLE LOCATION**

UTM 17 - NAD83  
 N: 4408700.850  
 E: 521072.640  
 NAD27, WV NORTH  
 N: 486135.813  
 E: 1647833.859  
 LAT/LON DATUM=NAD83  
 LAT: 39.828042  
 LON: -80.753748

**WATER WELLS:  
 NONE FOUND**

Well is located on topo map 9,183 feet south of Latitude: 39° 52' 30"

Well is located on topo map 6,823 feet west of Longitude: 80° 45' 00"



LINE	BEARING	DISTANCE
R1	S15°10'38"W	304.25'
R2	S50°47'35"W	166.81'
R3	N15°12'24"E	89.20'
R4	S68°24'20"E	2220.54'
R5	N16°24'10"W	765.30'

**LEGEND**

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

- 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.

Waterford Corporate Park III, Suite 101  
 2000 Georgetown Drive  
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**PVE ENGINEERING**

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

RECEIVED  
 Office of Oil and Gas  
 AUG 24 2018  
 WV Department of  
 Environmental Protection

FILE #: MND 01 DHS  
 DRAWING #: MND 01 DHS  
 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:   
 R.P.E.: 18766 L.L.S.: P.S. NO.

**JAMES MICHAEL VENTURE**  
 REGISTERED  
 18766  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL ENGINEER  
 PLACE SEAL HERE

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

DATE: AUGUST 20, 2018

OPERATOR'S WELL #: MND 01 DHS

API WELL # 47 051  
 STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1150.00'

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

SURFACE OWNER: CONSOLIDATION COAL COMPANY/ MURRAY ENERGY ACREAGE: 126.99

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY, LLC, ET AL. ACREAGE: 126.99

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: 6,449' ± TMD: 15,818' ±

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

08/31/2018