

SHL is located on topo map 2,195 feet south of Latitude: 39° 57' 30"
 BHL is located on topo map 11,732 feet south of Latitude: 39° 57' 30"

Sheffler & Company, Inc.
 ENGINEERING • SURVEYING

1712 Mount Nebo Road Phone: 412-219-4509
 Sewickley, PA 15143 Email: Info@shefflerCo.com

SHL is located on topo map 2,224 feet west of Longitude: 80° 37' 30"
 BHL is located on topo map 7,745 feet west of Longitude: 80° 35' 00"



SHL +
 TOTAL UNIT
 470.9 ACRES



- 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, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted
 - Mineral and Surface parcel lines are the same

LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL
- SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED WW6A1
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- UNIT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/POND/WATERWAY
- ROAD
- FORCE POOLED PARCEL

WELLS WITHIN 3000'
 SIX (6) WELLS WITHIN 3000'

MONUMENT REFERENCE TABLE

LINE NO.	BEARING	DISTANCE
R1	S3°05'58"W	400.83'
R2	N79°26'18"E	258.46'
R3	N49°16'04"W	539.90'
R4	N79°26'18"E	258.46'
R5	N77°47'34"W	1288.84'

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83
 N: 4422528.363(m)
 E: 531354.537(m)
 NAD27, VV NORTH
 N: 530946.278(ft)
 E: 1682330.782(ft)
 LAT/LON - NAD83
 LAT: N39.9523077
 LON: W80.6329332

APPROXIMATE LANDING POINT
 UTM 17 - NAD83
 N: 4422318.861(m)
 E: 531362.782(m)
 NAD27, VV NORTH
 N: 530258.340(ft)
 E: 1682346.352(ft)
 LAT/LON - NAD83
 LAT: N39.9504198
 LON: W80.6328468

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83
 N: 4419630.629(m)
 E: 533245.102(m)
 NAD27, VV NORTH
 N: 521333.443(ft)
 E: 1688375.619(ft)
 LAT/LON - NAD83
 LAT: N39.9267279
 LON: W80.6109488

FILE # HARRENHAL-9UH
 DRAWING # HARRENHAL-9UH-R7.DWG
 SCALE: 1"=2500'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX0742: 1343.3'

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: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,134.2'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER(1): APP MINERALS LLC ACREAGE(1): 183.31 SURFACE OWNER(2): ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2): 39.39
 OIL & GAS ROYALTY OWNERS(1): APP MINERALS LLC ACREAGE(1): 183.31
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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: 11,395' ± TMD: 22,589' ±
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN
 Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000
 City: CANONSBURG State: PA Zip Code: 15317 City: CHARLESTON State: WV Zip Code: 25301

DATE: December 18, 2018 - REV - April 30, 2019
 OPERATOR'S WELL #: HARRENHAL-9UH
 API WELL # 47 051 02091 MOD
 STATE COUNTY PERMIT



DETAIL 1
 SCALE = 1" = 500'

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DETAIL 2
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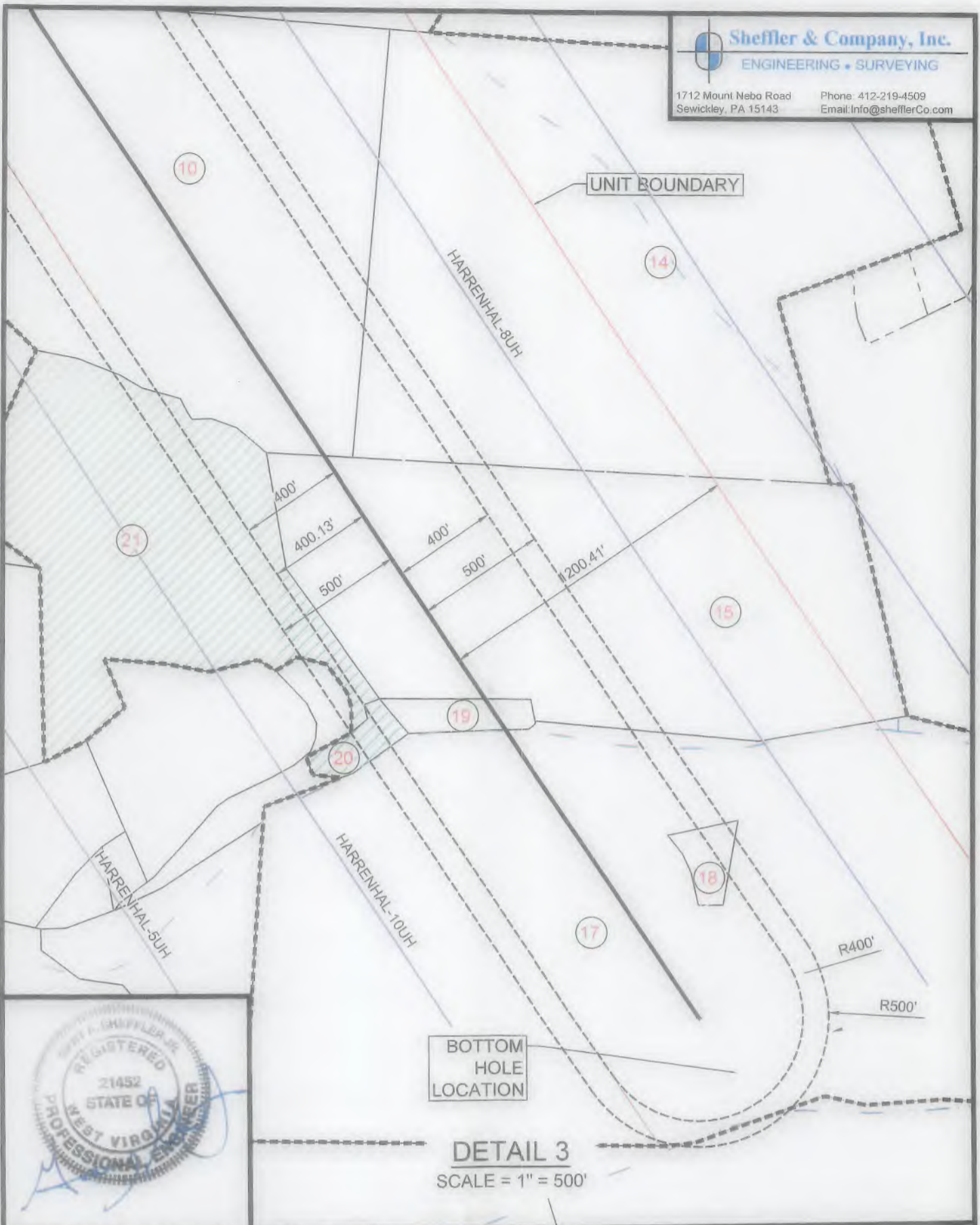
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