

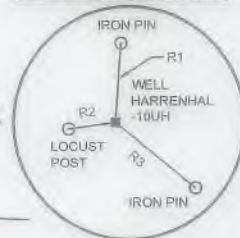
Well is located on topo map 2,208 feet south of Latitude: 39° 57' 30"
 Well is located on topo map 11,776 feet south of Latitude: 39° 57' 30"

Sheffler & Company, Inc.
 ENGINEERING • SURVEYING

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

Well is located on topo map 2,232 feet west of Longitude: 80° 37' 30"
 Well is located on topo map 8,691 feet west of Longitude: 80° 35' 00"

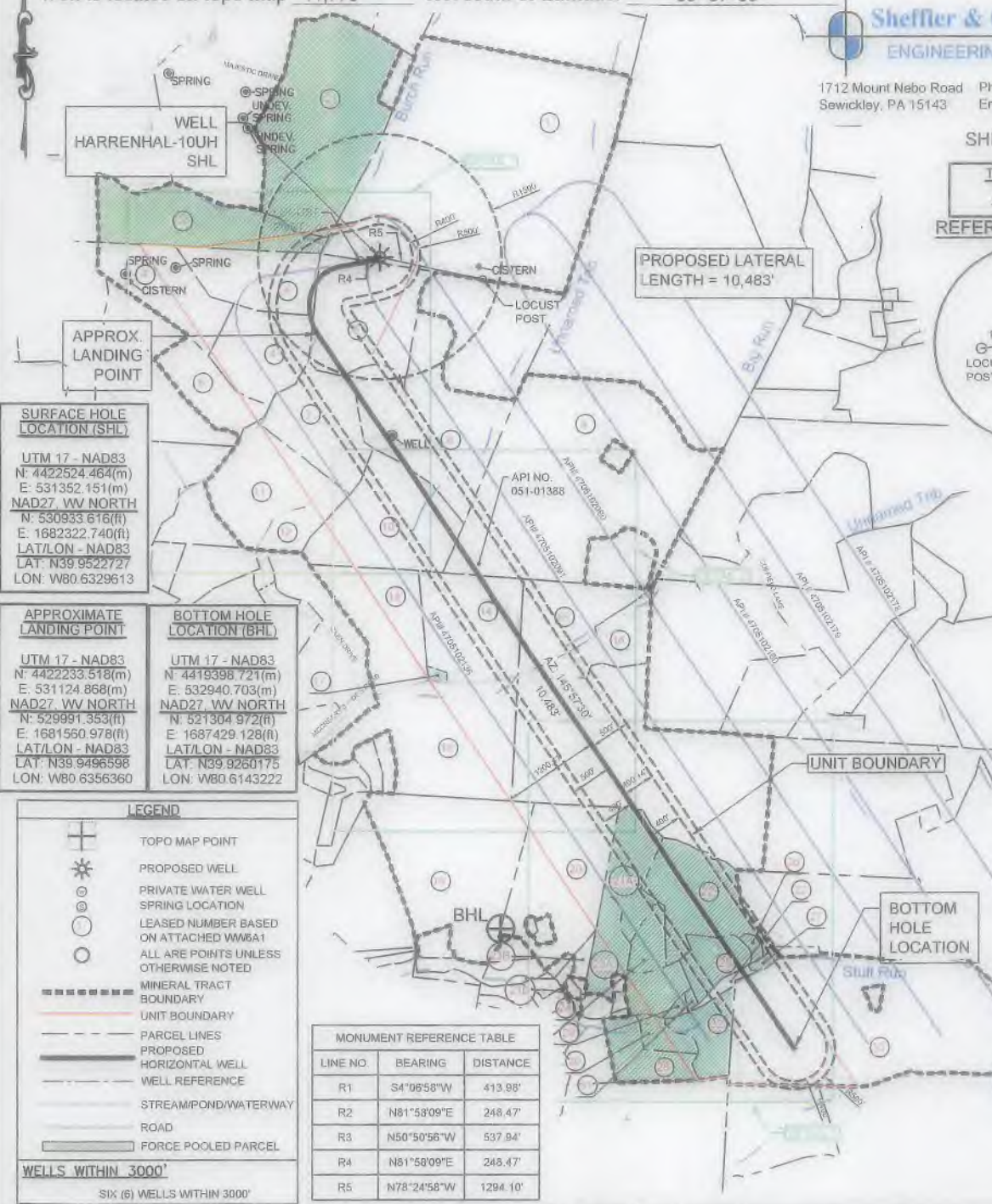
SHL +
 TOTAL UNIT
 486.30 AC.
 REFERENCE DETAIL



PROPOSED LATERAL LENGTH = 10,483'

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, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
7. Mineral and Surface parcel lines are the same. With the exception of lease numbers 21A-B and 23A-B.



SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83
 N: 4422524.464(m)
 E: 531352.151(m)
 NAD27 VV NORTH
 N: 530933.616(ft)
 E: 1682322.740(ft)
 LAT/LON - NAD83
 LAT: N39.9522727
 LON: W80.6329613

APPROXIMATE LANDING POINT
 UTM 17 - NAD83
 N: 4422233.518(m)
 E: 531124.868(m)
 NAD27 VV NORTH
 N: 529991.353(ft)
 E: 1681550.978(ft)
 LAT/LON - NAD83
 LAT: N39.9496598
 LON: W80.6356360

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83
 N: 4419398.721(m)
 E: 532940.703(m)
 NAD27 VV NORTH
 N: 521304.972(ft)
 E: 1687429.128(ft)
 LAT/LON - NAD83
 LAT: N39.9260175
 LON: W80.6143222

LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL
- SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED VV#6A1
- 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'

LINE NO.	BEARING	DISTANCE
R1	S4°06'58"W	413.98'
R2	N81°58'09"E	248.47'
R3	N50°50'56"W	537.94'
R4	N81°58'09"E	248.47'
R5	N78°24'58"W	1294.10'

FILE # HARRENHAL-10UH
 DRAWING # HARRENHAL-10UH-R6.DWG
 SCALE 1"=2000'
 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

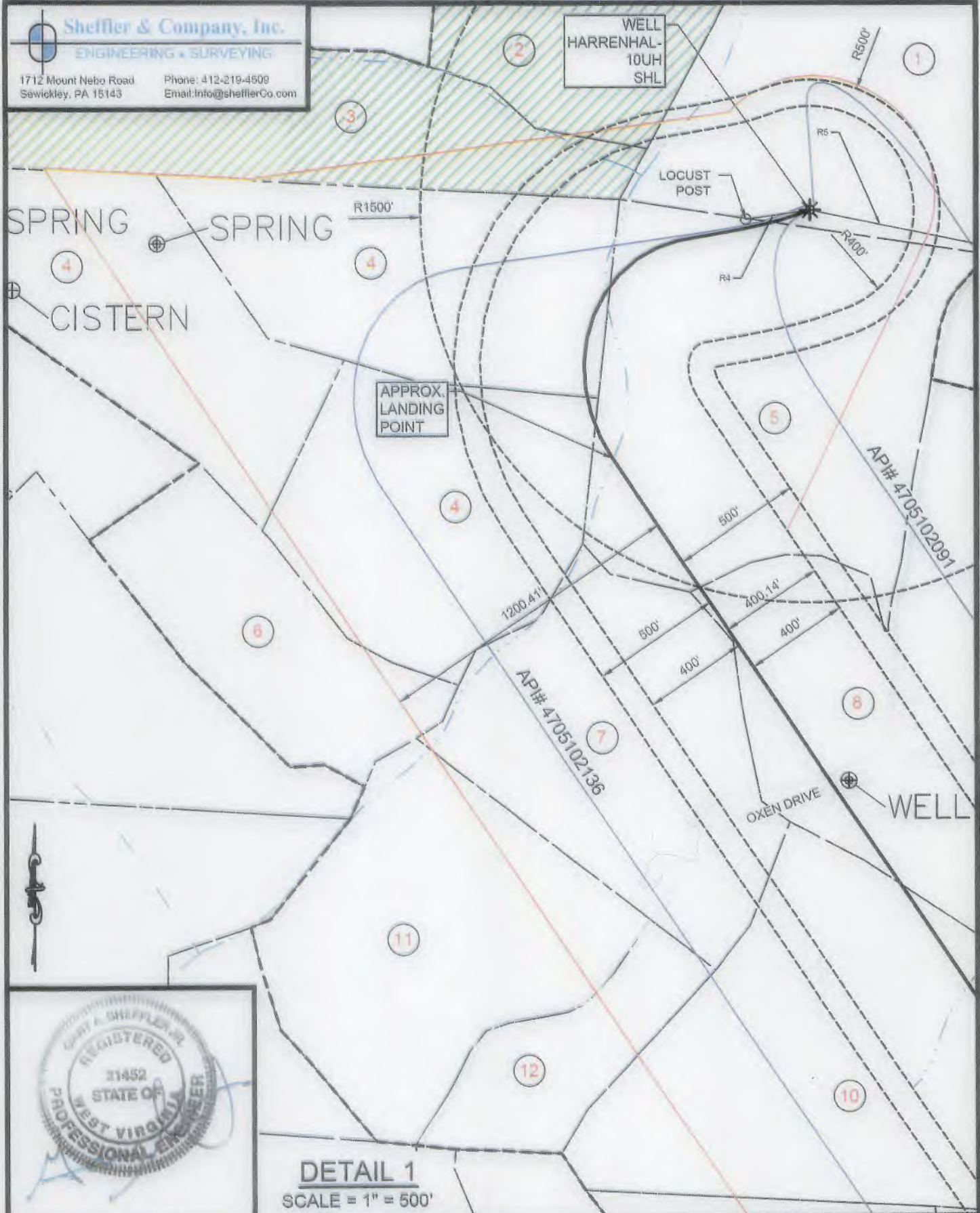
Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

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
 OIL & GAS ROYALTY OWNERS(2) ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2) 39.39

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: 22,872' ±
 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



DETAIL 1
 SCALE = 1" = 500'

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



DATE: November 30, 2018 -REV- March 18, 2019
 OPERATOR'S WELL #: HARRENHAL-10UH
 API WELL # 47 051 02137
 STATE COUNTY PERMIT

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: MOUNDVILLE, WV
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 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



DETAIL 2
 SCALE = 1" = 500'

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 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



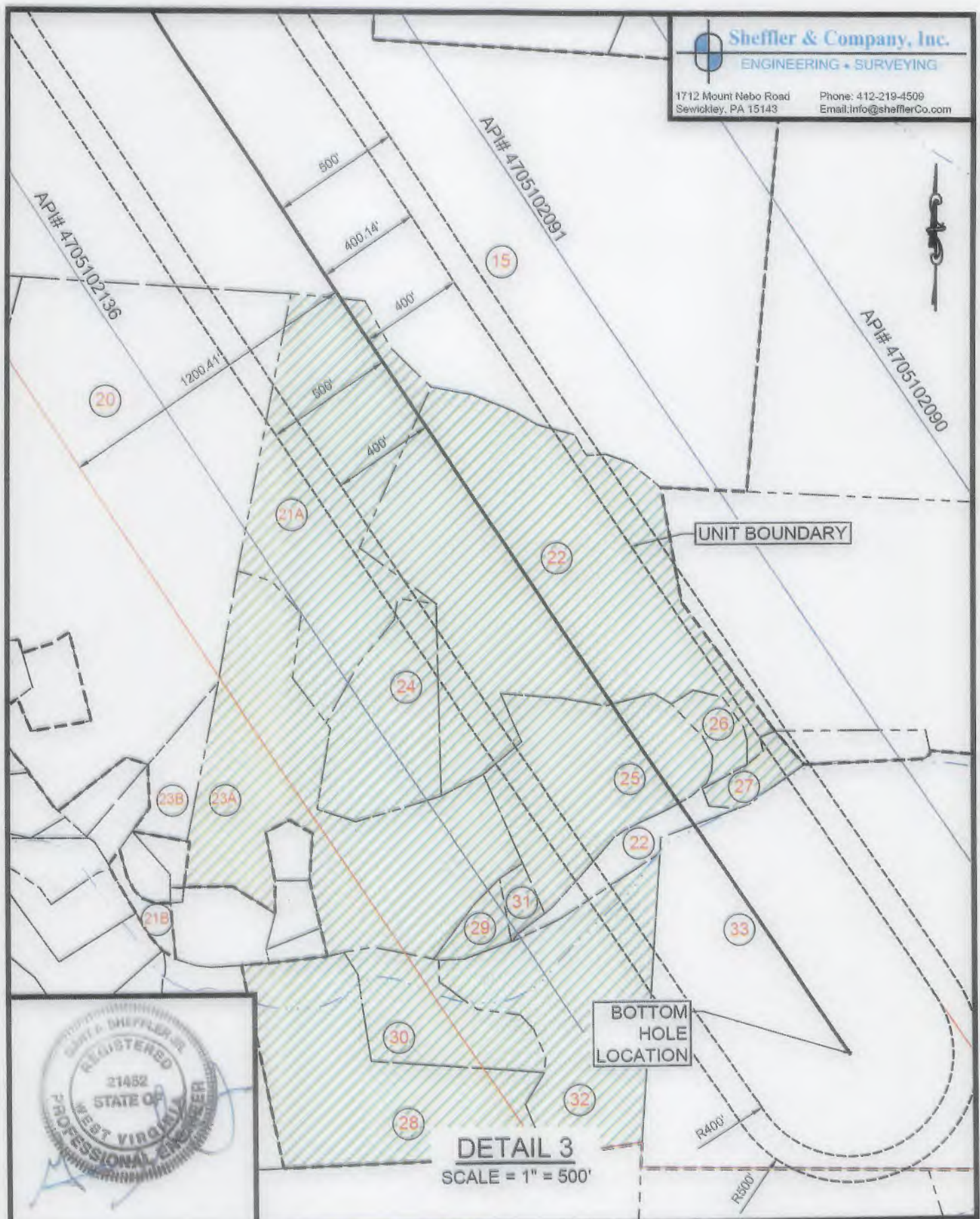
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 City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



DETAIL 3
SCALE = 1" = 500'

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API WELL # 47 051 02137
STATE COUNTY PERMIT

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DATE: November 30, 2018 -REV- March 18, 2019

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API WELL #	<u>47</u>	<u>051</u>	<u>02137</u>
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