

Surface Hole Well is located on topo map 12,258 feet south of Latitude: 40° 00' 00"
 Bottom Hole Well is located on topo map 5,492 feet south of Latitude: 40° 00' 00"

Sheffler & Company, Inc.

PROPOSED LATERAL LENGTH = 8,176' ±

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83
 N: 4424075.965(m)
 E: 528578.752(m)
 NAD27 WV NORTH
 N: 536177.254(ft)
 E: 1673307.130(ft)
 LAT/LON - NAD83
 LAT: N39.9663495(d)
 LON: W80.6653607(d)

APPROXIMATE LANDING POINT
 UTM 17 - NAD83
 N: 4424015.695(m)
 E: 528170.443(m)
 NAD27 WV NORTH
 N: 536001.905(ft)
 E: 1671963.992(ft)
 LAT/LON - NAD83
 LAT: N39.9658202(d)
 LON: W80.6701443(d)

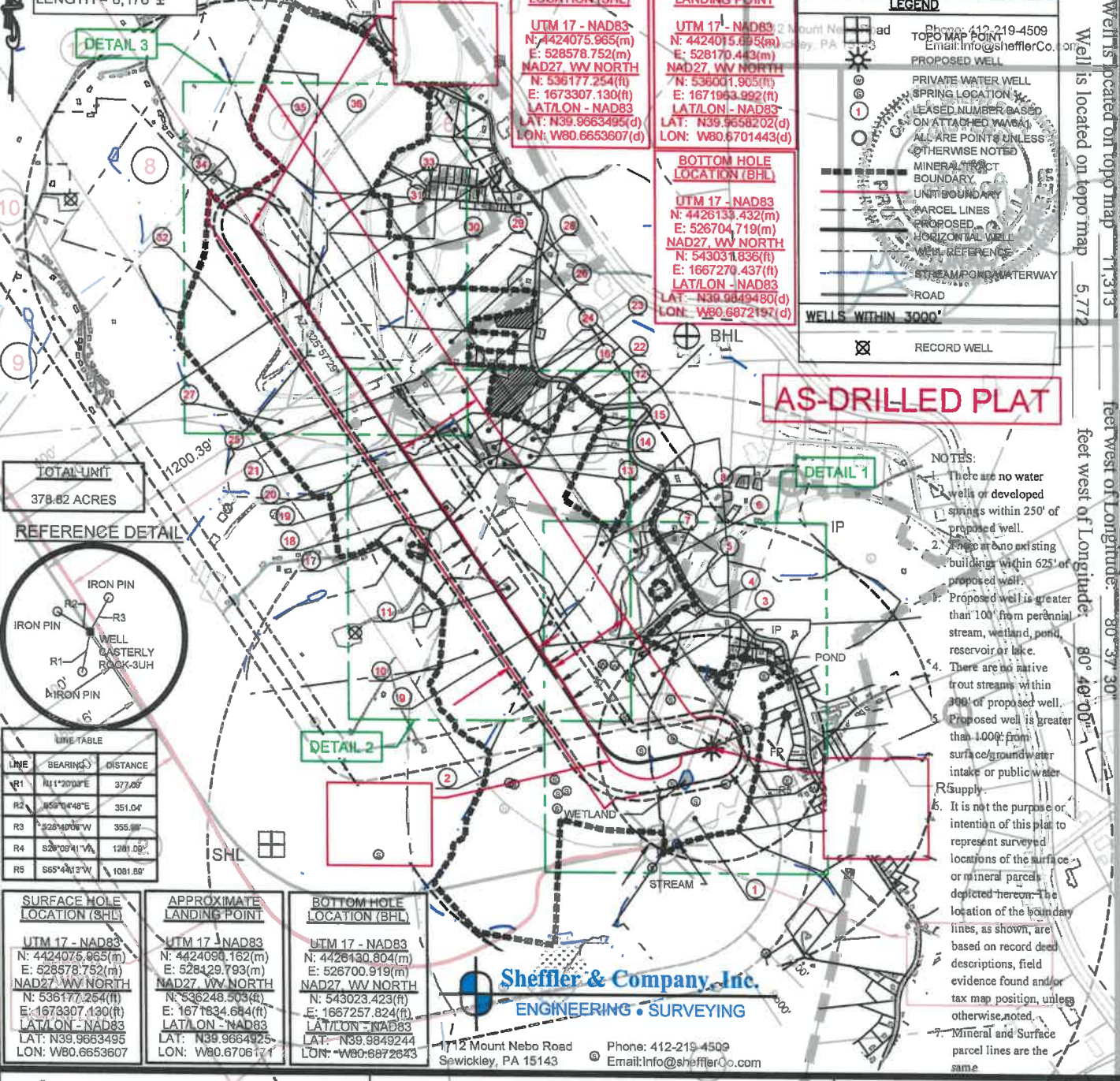
BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83
 N: 4426133.432(m)
 E: 526704.719(m)
 NAD27 WV NORTH
 N: 543031836(ft)
 E: 1667270.437(ft)
 LAT/LON - NAD83
 LAT: N39.9849480(d)
 LON: W80.6872197(d)

LEGEND

- TOP MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL
- SPRING LOCATION
- LEASE NUMBER BASED ON ATTACHED WABA
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- UNIT BOUNDARY
- PARCEL LINES PROPOSED
- HORIZONTAL WELL
- WELL REFERENCE
- STREAM/POND/WATERWAY
- ROAD
- WELLS WITHIN 3000'
- RECORD WELL

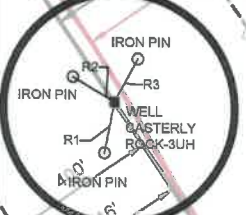
AS-DRILLED PLAT

- 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.



TOTAL UNIT
378.82 ACRES

REFERENCE DETAIL



LINE TABLE

LINE	BEARING	DISTANCE
R1	N11°20'00"E	377.06'
R2	S59°14'48"E	351.04'
R3	S28°40'00"W	355.00'
R4	S28°09'41"W	1201.02'
R5	S65°46'37"W	1081.89'

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83
 N: 4424075.965(m)
 E: 528578.752(m)
 NAD27 WV NORTH
 N: 536177.254(ft)
 E: 1673307.130(ft)
 LAT/LON - NAD83
 LAT: N39.9663495
 LON: W80.6653607

APPROXIMATE LANDING POINT
 UTM 17 - NAD83
 N: 4424090.162(m)
 E: 528429.793(m)
 NAD27 WV NORTH
 N: 536248.503(ft)
 E: 1671834.684(ft)
 LAT/LON - NAD83
 LAT: N39.9664925
 LON: W80.6706171

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83
 N: 4426130.804(m)
 E: 526700.919(m)
 NAD27 WV NORTH
 N: 543023.423(ft)
 E: 1667257.824(ft)
 LAT/LON - NAD83
 LAT: N39.9849244
 LON: W80.6872643

Sheffler & Company, Inc.
 ENGINEERING • SURVEYING
 1712 Mount Nebo Road
 Sewickley, PA 15143
 Phone: 412-219-4509
 Email: Info@shefflerco.com

FILE #: CASTERLY ROCK-3UH
 DRAWING #: CRN-3UH_AS-DRILLED.DWG
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX0787: 1319.9'

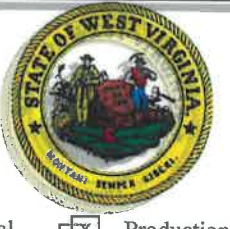
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: *Gayle*
 R.P.E.: 21452 L.L.S.: P.S. NO.

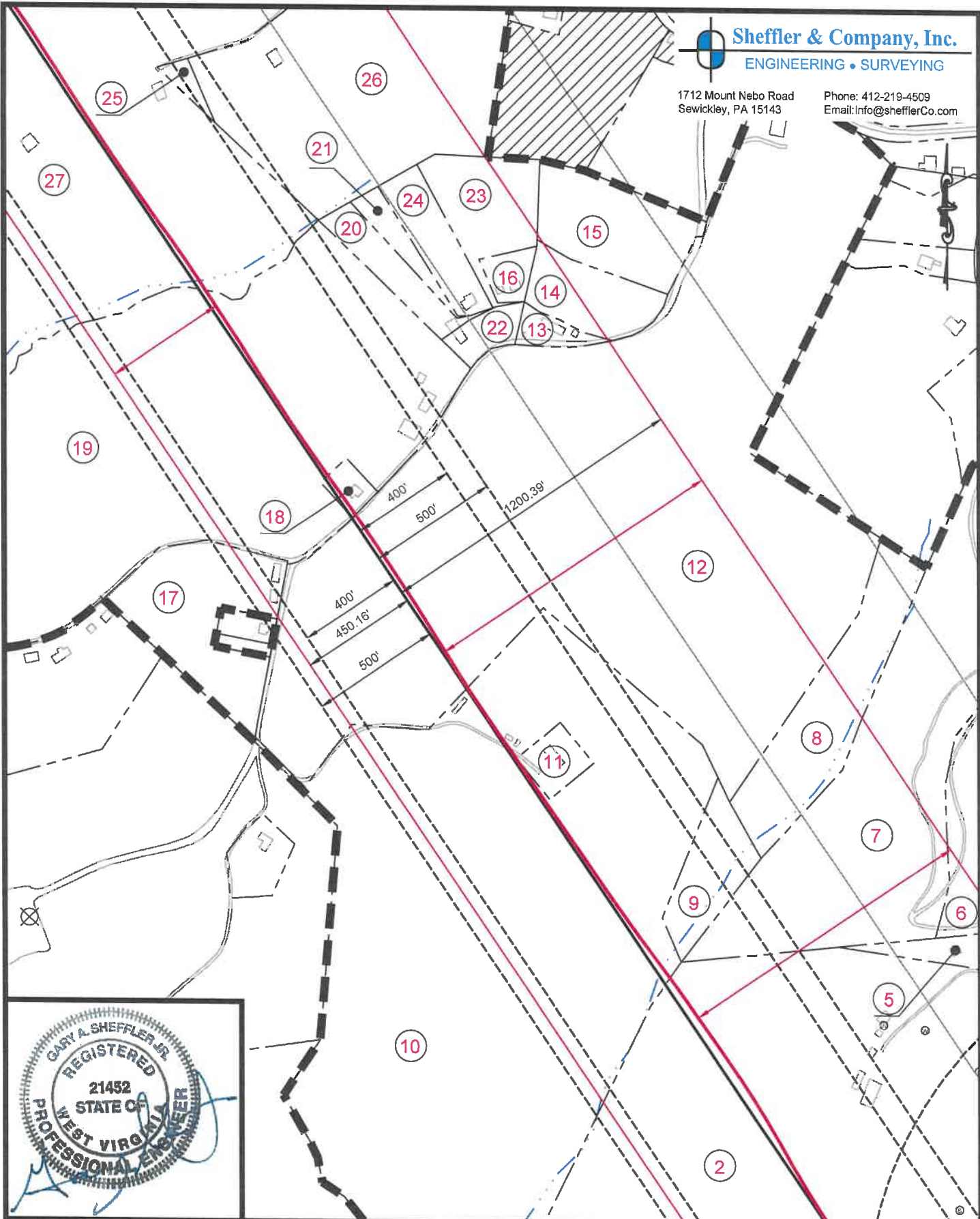
GARY A. SHEFFLER JR.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF WEST VIRGINIA
 21452
 PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WV DEP OFFICE OF OIL & GAS
 601-57TH STREET
 CHARLESTON, WV 25304
 Well Type: Oil Gas Waste Disposal Liquid Injection Production Storage Deep Shallow
 WATERSHED: SHORT CREEK OHIO RIVER
 COUNTY DISTRICT: MARSHALL / UNION
 SURFACE OWNER: LESLIE B. & LORI D. SCHABER
 OIL & GAS ROYALTY OWNER: CAROL A. WENSYEL A/K/A CAROL A. MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010
 AND JOHN F. MILLER, SR. TRUSTEE OF THE JOHN F. MILLER, SR. IRREVOCABLE TRUST DATED OCTOBER 28, 2010 TRUST

DATE: May 22, 2018 AS-DRILLED July 16, 2019
 OPERATOR'S WELL #: CASTERLY ROCK-3UH
 API WELL # 47 051 02046
 STATE COUNTY PERMIT
 ORIGINAL ELEVATION: 1,335.74' AS-DRILLED ELEVATION: 1,312.1'
 QUADRANGLE: MOUNDSVILLE, WV
 ACREAGE: 71.75
 ACREAGE: 73.74



DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED
 TARGET FORMATION: POINT PLEASANT
 ESTIMATED DEPTH: TMD: 11,395' ± TMD: 20,602.68' ±
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS, L.L.C.
 DESIGNATED AGENT: STEVEN GREEN
 Address: 4490 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



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



DATE: May 22, 2018 --- AS-DRILLED --- July 16, 2019

OPERATOR'S WELL #: CASTERLY ROCK-3UH

API WELL # 47 051 02046
 STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK - OHIO RIVER ORIGINAL ELEVATION: 1,335.74' AS-DRILLED ELEVATION: 1,312.1'

COUNTY/DISTRICT: MARSHALL / UNION QUADRANGLE: MOUNDSVILLE, WV

SURFACE OWNER: LESLIE B. & LORI D. SCHABER ACREAGE: 71.75

OIL & GAS ROYALTY OWNER: CAROL A. WENSYEL A/K/A CAROL A. MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010 AND JOHN F. MILLER, SR. TRUSTEE OF THE JOHN F. MILLER, SR. IRREVOCABLE TRUST, DATED OCTOBER 28, 2010. ACREAGE: 73.74

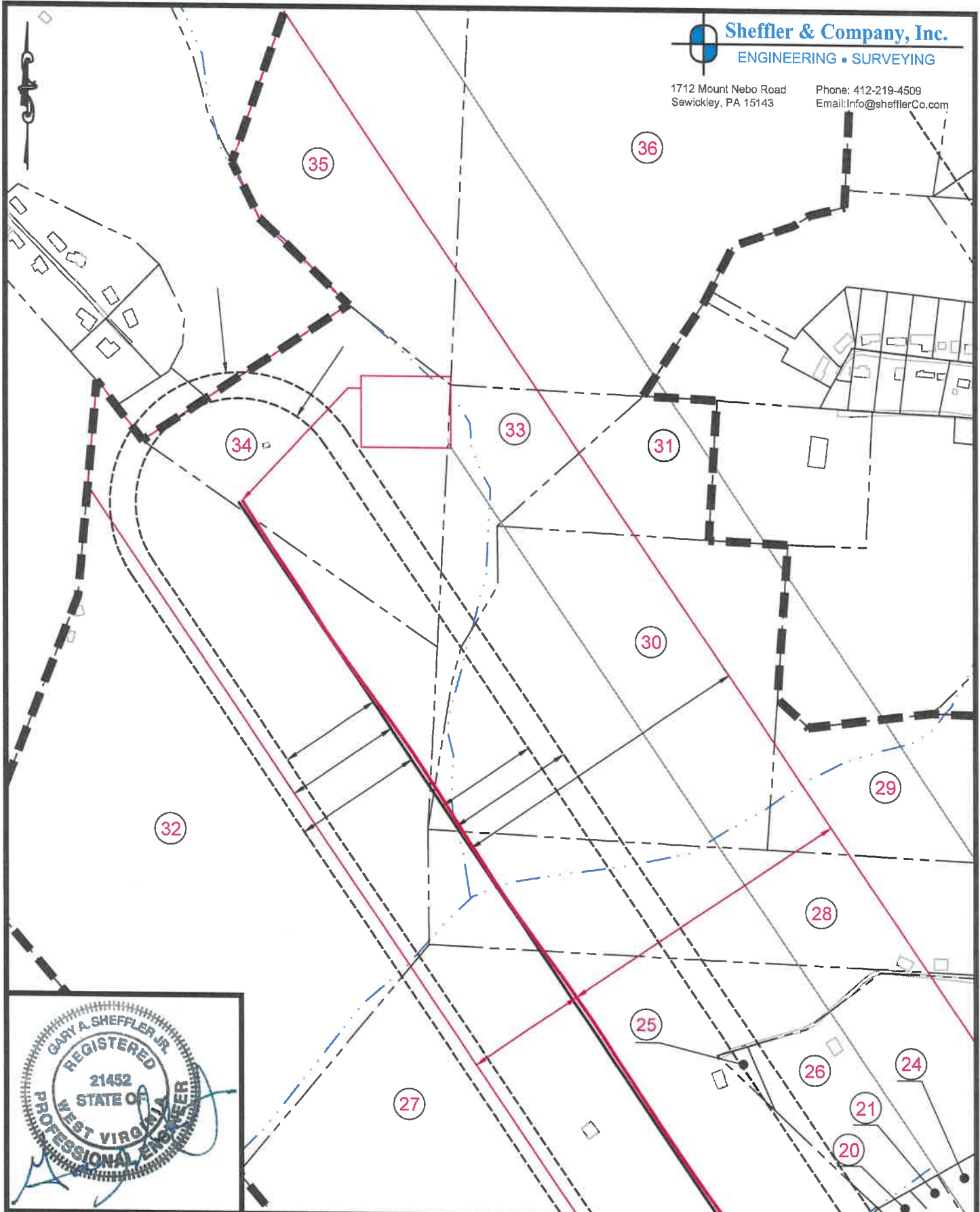
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TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 20,602.68' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS, 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



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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

DATE: May 22, 2018 -- AS-DRILLED -- July 16, 2019

OPERATOR'S WELL #: CASTERLY ROCK-3UH

API WELL #	<u>47</u>	<u>051</u>	<u>02046</u>
	STATE	COUNTY	PERMIT