

Surface Hole Well is located on topo map 12,278 feet south of Latitude: 40° 00' 00"
 Bottom Hole Well is located on topo map 5,432 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

LEGEND

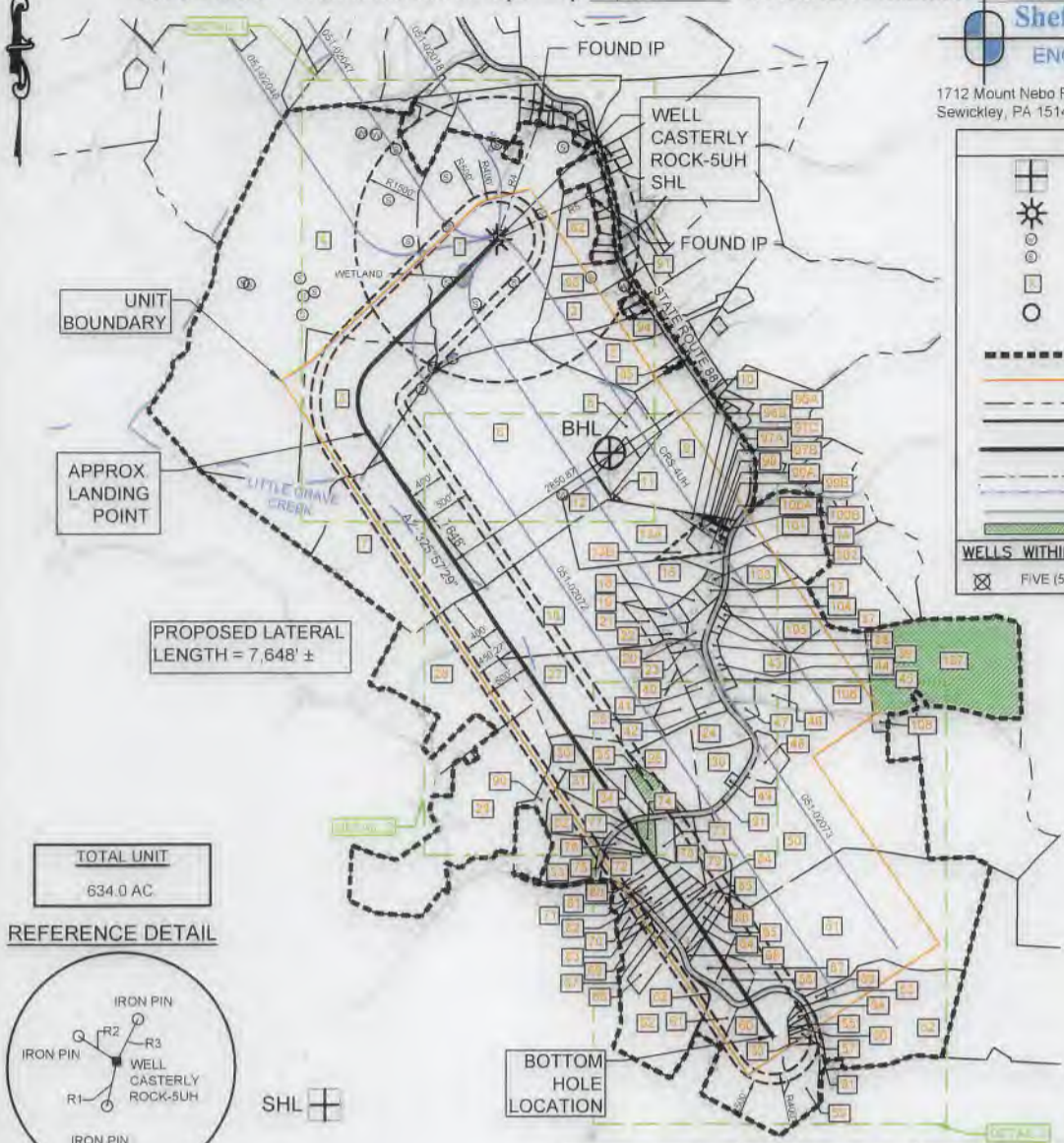
- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED WMA#1
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- UNIT BOUNDARY
- PARCEL LINES
- MINERAL PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/POND/WATERWAY
- ROAD
- FORCE POOLED PARCEL

WELLS WITHIN 3000'

- FIVE (5) DEEP WELLS WITHIN 3000 FT

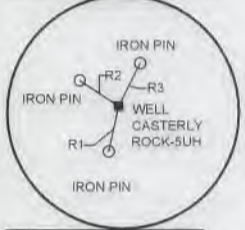
03/29/2019

Well is located on topo map 11,309 feet west of Longitude: 80° 37' 30"
 Well is located on topo map 8,286 feet west of Longitude: 80° 37' 30"



- 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 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.
 - 7 Mineral and Surface parcel lines are the same except for #13, #96, #97, #99 & #100 above.

TOTAL UNIT
634.0 AC



LINE TABLE

LINE	BEARING	DISTANCE
R1	N12°28'58"E	358.50
R2	S56°41'32"E	364.39
R3	S26°45'16"W	371.86
R4	S19°43'18"W	1298.47
R5	S64°43'00"W	1087.09

SURFACE HOLE LOCATION (SHL)	APPROXIMATE LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17 - NAD83 N: 4424069.977(m) E: 528579.881(m) NAD27, WV NORTH N: 536157.541(ft) E: 1673310.507(ft) LAT/LON - NAD83 LAT: N39 9662955(d) LON: W80.6653478(d)	UTM 17 - NAD83 N: 4423443.750(m) E: 528175.178(m) NAD27, WV NORTH N: 534124.786(ft) E: 1671948.175(ft) LAT/LON - NAD83 LAT: N39 9606670(d) LON: W80.6701136(d)	UTM 17 - NAD83 N: 4421534.9036(m) E: 529511.767(m) NAD27, WV NORTH N: 527787.445(ft) E: 1676229.429(ft) LAT/LON - NAD83 LAT: N39 9434233(d) LON: W80.6545511(d)

FILE # CASTERLY ROCK-5UH
 DRAWING # CRSW-5UH-LONG-R4.DWG
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE: USGS MONUMENT
 OF ELEVATION: 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: [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: 1,338.53'
 COUNTY/DISTRICT: MARSHALL / UNION QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER: LESLIE B. & LORI D. SCHABER ACREAGE: 73.79
 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: 73.79

DATE: November 14, 2018 - REV - December 13, 2018
 OPERATOR'S WELL #: CASTERLY ROCK-5UH
 API WELL # 47 051 02071 STATE COUNTY PERMIT

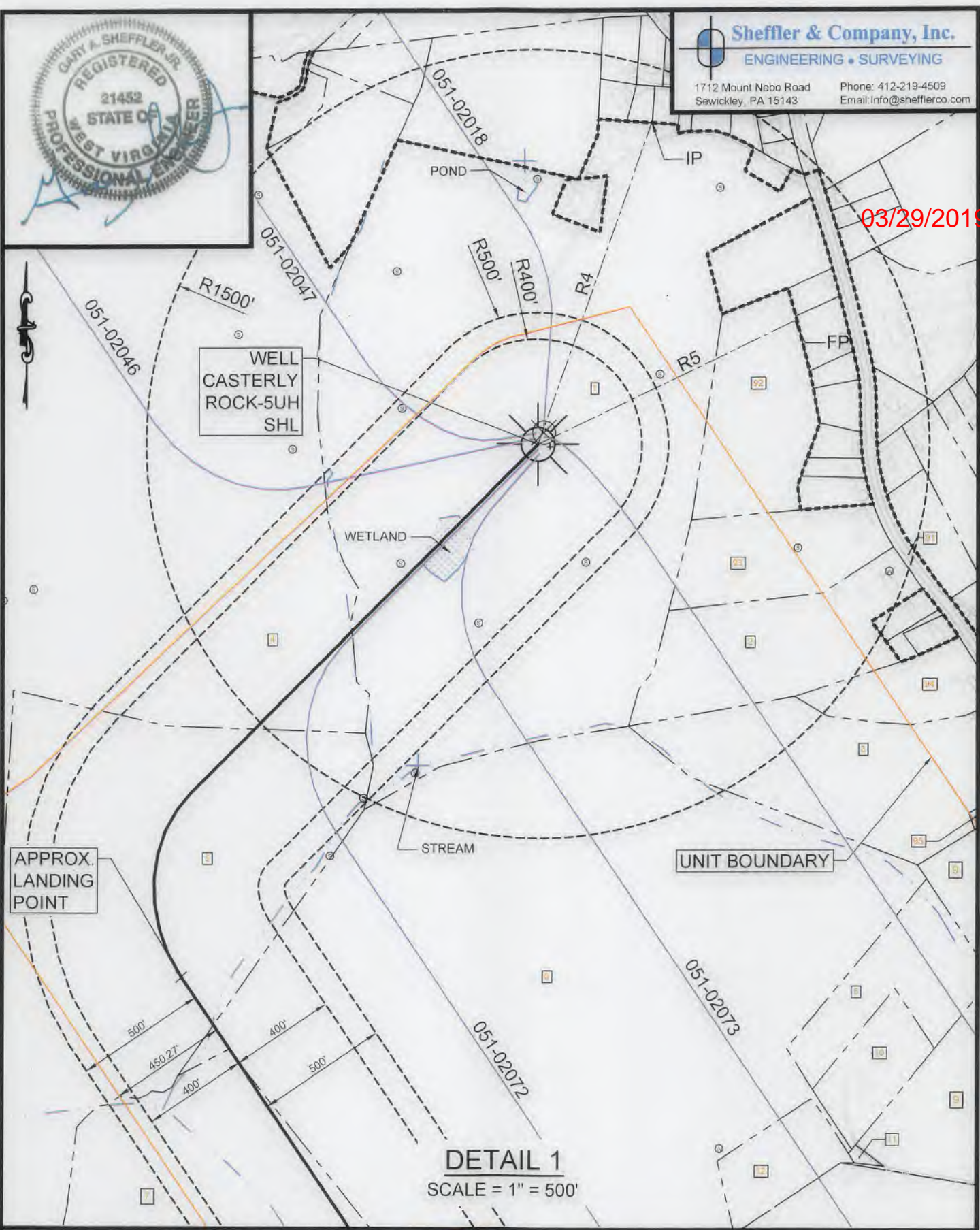
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 20,754' ±
 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



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DETAIL 1
 SCALE = 1" = 500'

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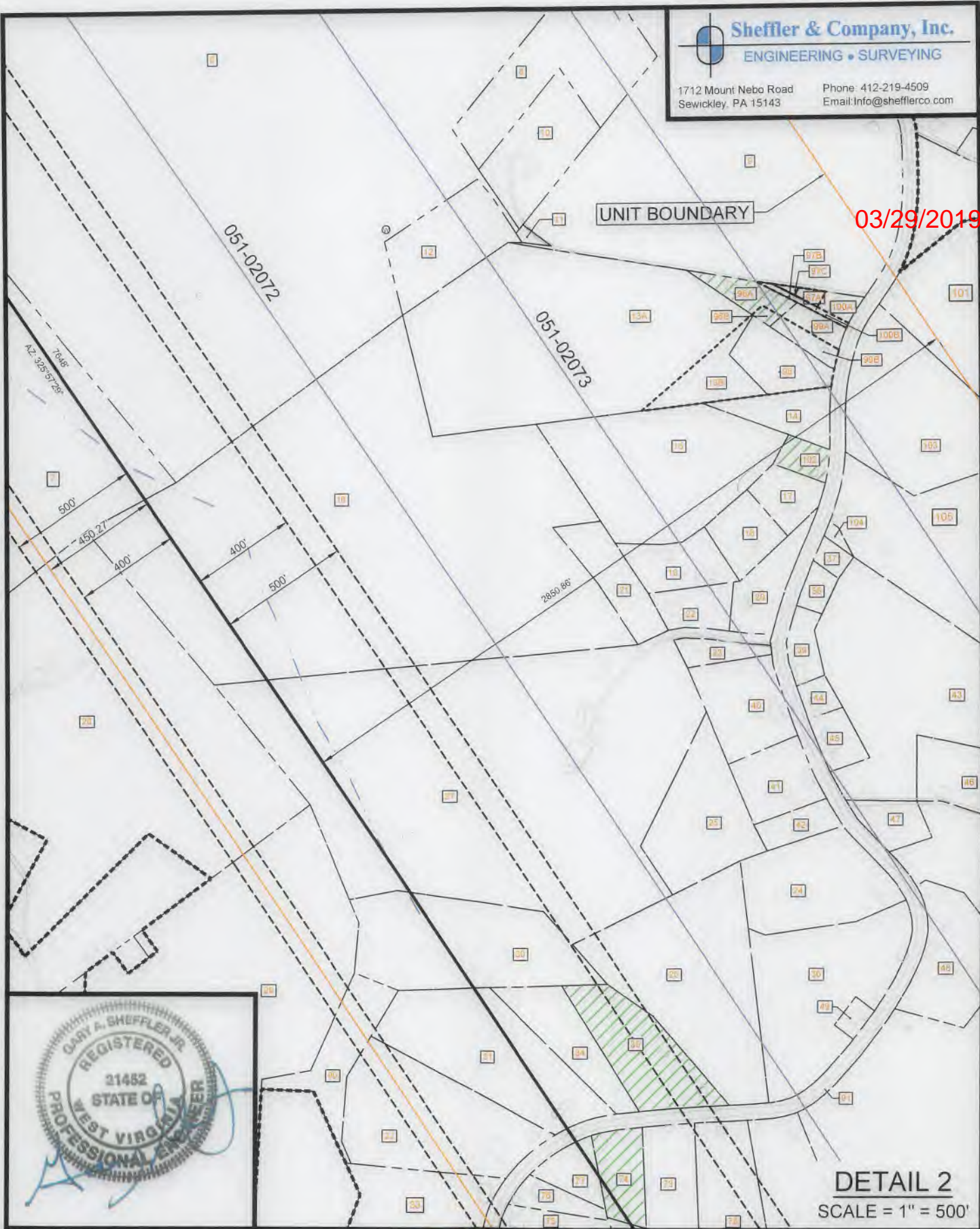
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DETAIL 2
SCALE = 1" = 500'

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



DATE: November 14, 2018 - REV - December 13, 2018

OPERATOR'S WELL #: CASTERLY ROCK-5UH

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	STATE	COUNTY	PERMIT

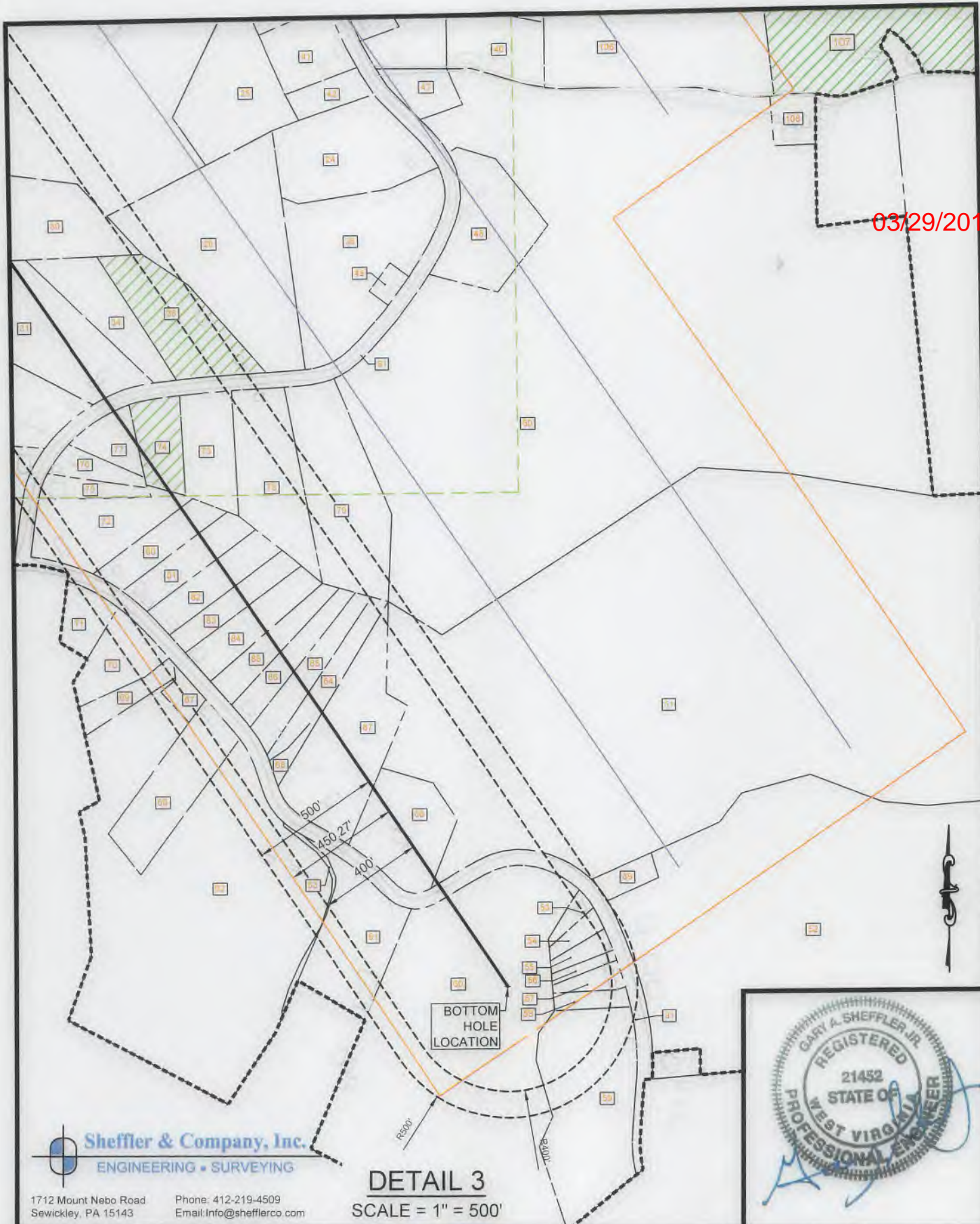
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