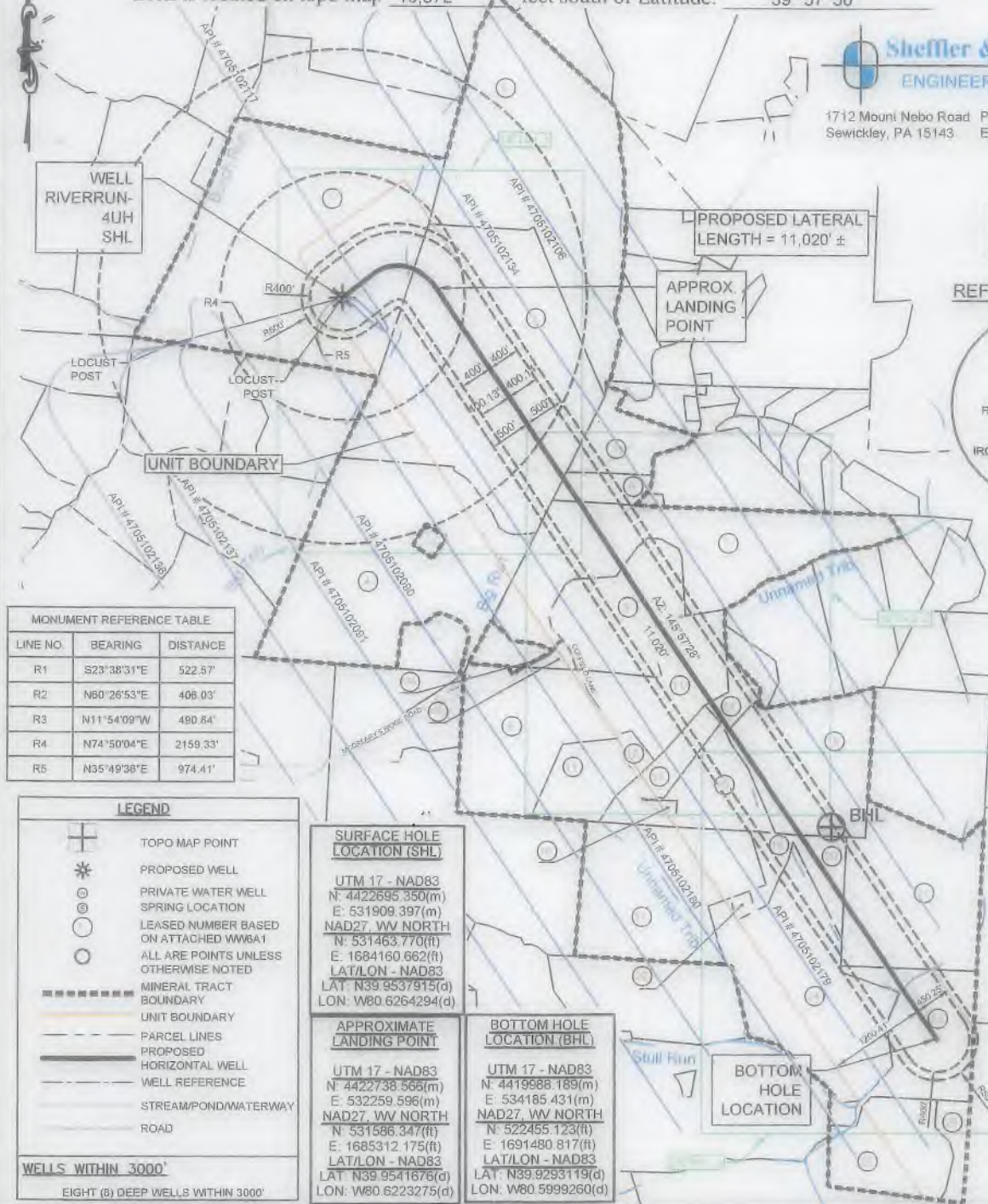


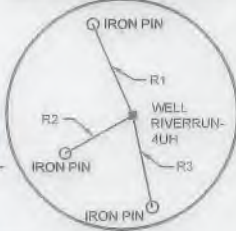
Well is located on topo map 1,655 feet south of Latitude: 39° 57' 30"
 BHL is located on topo map 10,572 feet south of Latitude: 39° 57' 30"

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



TOTAL UNIT
 498.90 ACRES
 06/14/2019

REFERENCE DETAIL



- Well is located on topo map 401
 BHL is located on topo map 4,653 feet west of Longitude: 80° 37' 30"
 feet west of Longitude: 80° 35' 00"
- NOTES
- There are no water wells or developed springs within 250' of proposed well.
 - There are existing buildings within 625' of proposed well, see Detail 1.
 - 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.

MONUMENT REFERENCE TABLE

LINE NO.	BEARING	DISTANCE
R1	S23°38'31"E	522.57'
R2	N80°26'53"E	406.03'
R3	N11°54'09"W	490.84'
R4	N74°50'04"E	2159.33'
R5	N35°49'36"E	974.41'

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

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83
 N: 4422695.350(m)
 E: 531909.397(m)
 NAD27, VV NORTH
 N: 531463.770(ft)
 E: 1684160.662(ft)
 LAT/LON - NAD83
 LAT: N39.9537915(d)
 LON: W80.6264294(d)

APPROXIMATE LANDING POINT

UTM 17 - NAD83
 N: 4422738.566(m)
 E: 532259.596(m)
 NAD27, VV NORTH
 N: 531586.347(ft)
 E: 1685312.175(ft)
 LAT/LON - NAD83
 LAT: N39.9541676(d)
 LON: W80.6223275(d)

BOTTOM HOLE LOCATION (BHL)

UTM 17 - NAD83
 N: 4419988.189(m)
 E: 534185.431(m)
 NAD27, VV NORTH
 N: 522455.123(ft)
 E: 1691480.817(ft)
 LAT/LON - NAD83
 LAT: N39.9293119(d)
 LON: W80.5999260(d)

FILE #: RIVERRUN-4UH
 DRAWING #: RIVERRUN-4UH-R8.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: 1,264.94'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER: APP MINERALS LLC ACREAGE: 183.31
 OIL & GAS ROYALTY OWNER: APP MINERALS LLC

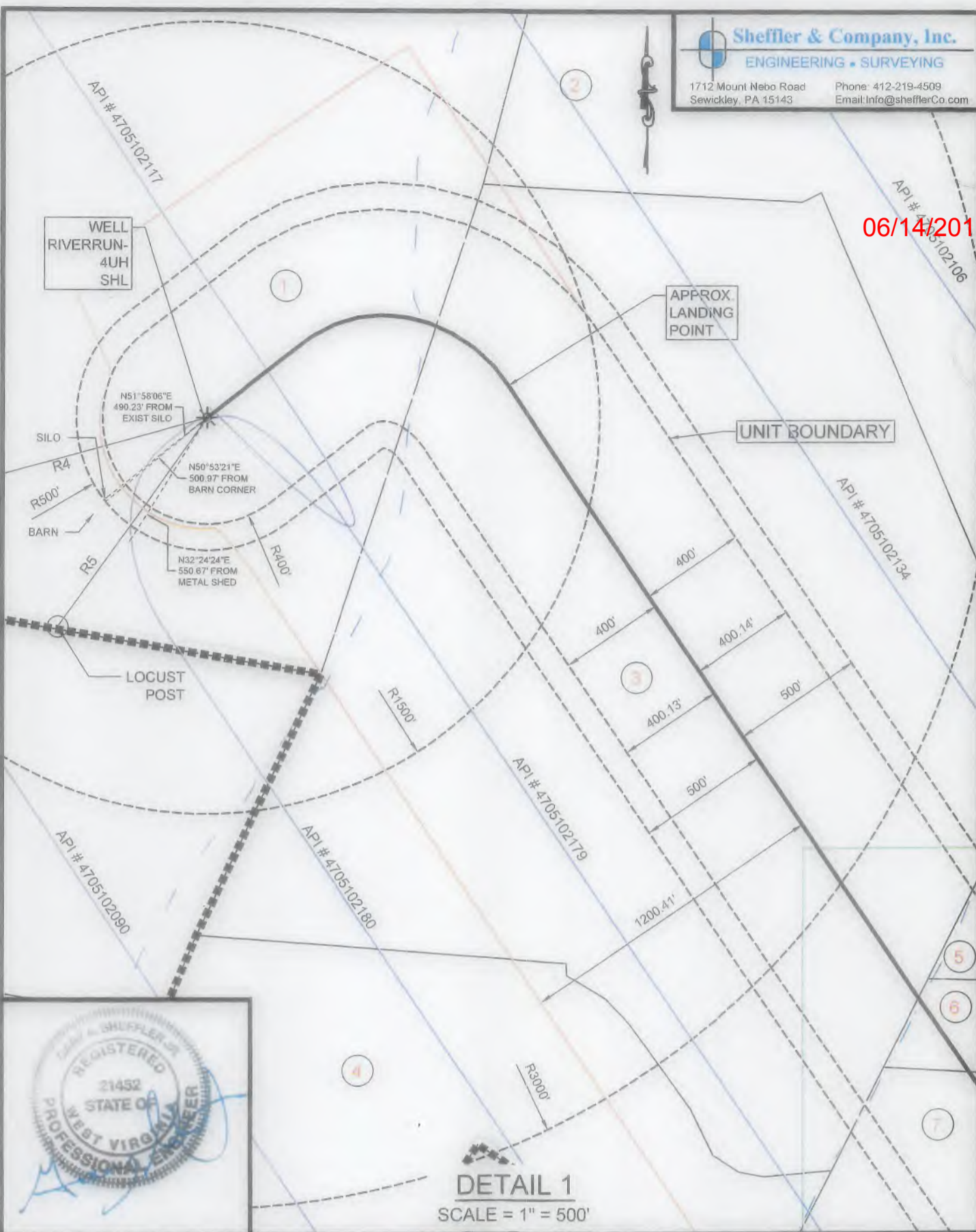
DATE: February 7, 2019 - REV - April 30, 2019
 OPERATOR'S WELL #: RIVERRUN-4UH
 API WELL # 47 051 02178H6A
 STATE COUNTY PERMIT



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: 23,314' ±
 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

06/14/2019



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: February 7, 2019 - REV - April 30, 2019
 OPERATOR'S WELL #: RIVERRUN-4UH
 API WELL # 47 051 02178 H6A
 STATE COUNTY PERMIT

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

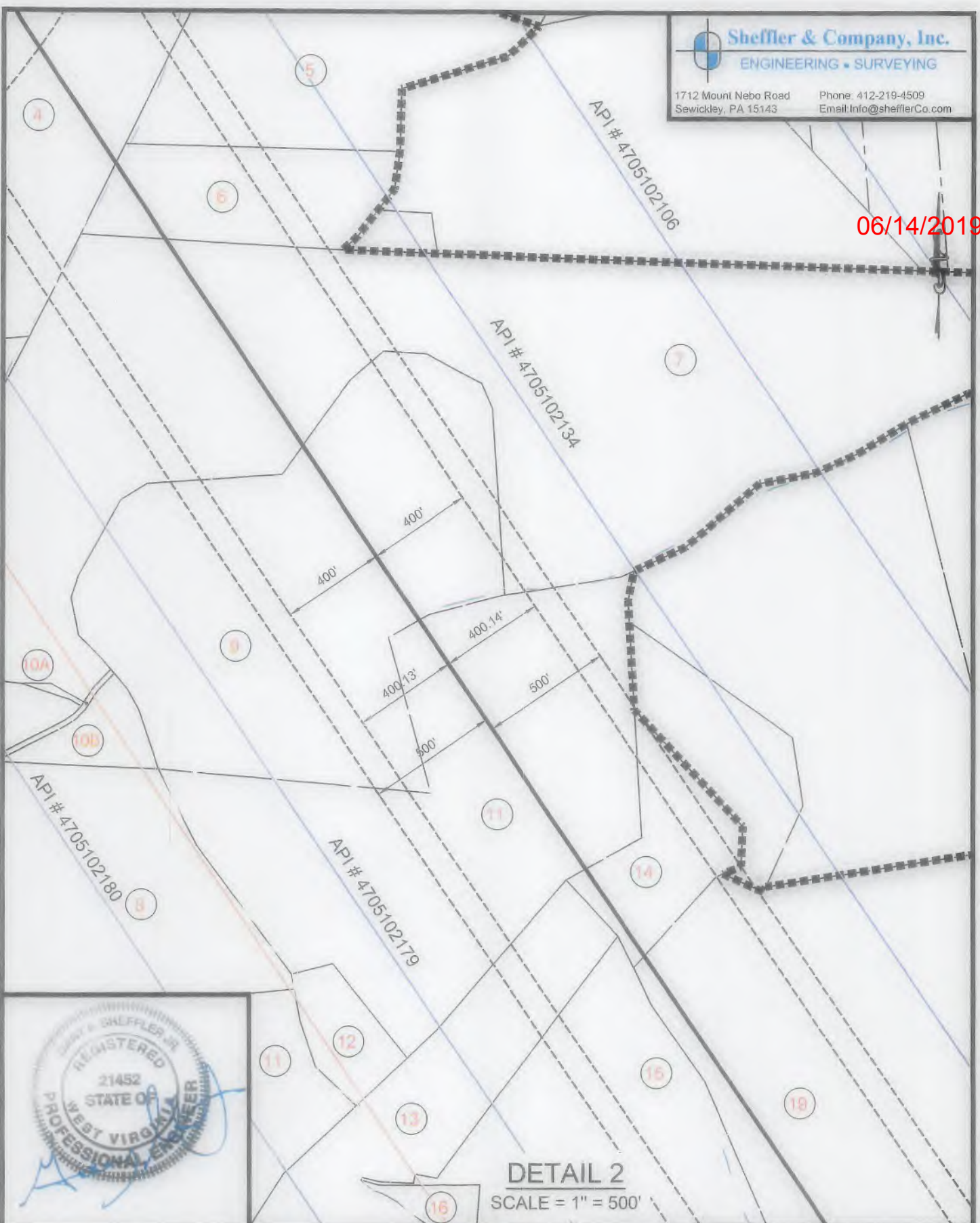
WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,264.94'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER: APP MINERALS LLC ACREAGE: 183.31
 OIL & GAS ROYALTY OWNER: APP MINERALS LLC

ACREAGE: 183.31

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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

06/14/2019



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DATE: February 7, 2019 - REV - April 30, 2019

OPERATOR'S WELL #: RIVERRUN-4UH

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

SURFACE OWNER: APP MINERALS LLC ACREAGE: 183.31

OIL & GAS ROYALTY OWNER: APP MINERALS LLC ACREAGE: 183.31

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
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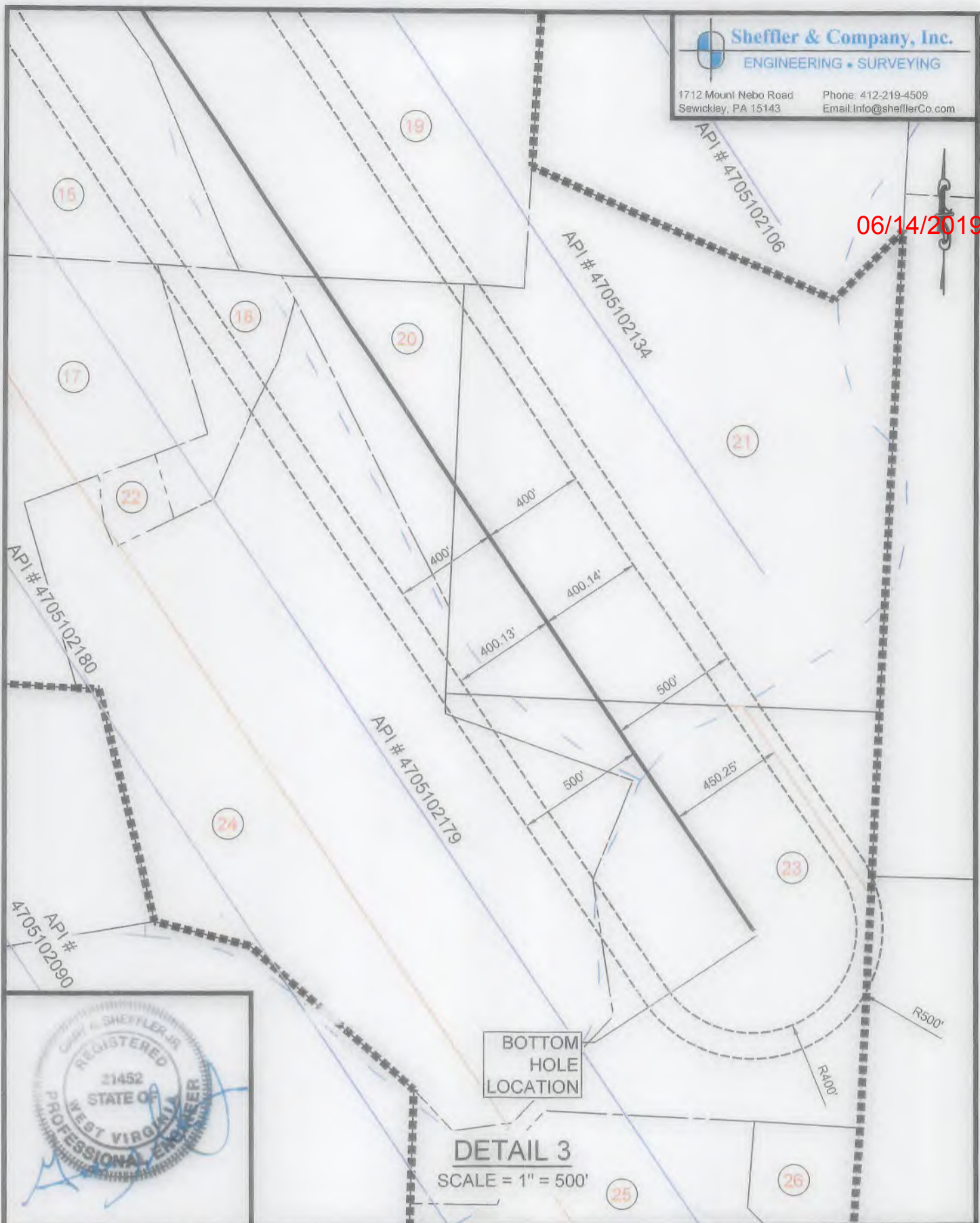
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Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000

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

06/14/2019



DETAIL 3
 SCALE = 1" = 500'

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DATE: February 7, 2019 - REV - April 30, 2019
 OPERATOR'S WELL #: RIVERRUN-4UH
 API WELL # 47 051 02178 H6A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,264.94'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDVILLE, WV
 SURFACE OWNER: APP MINERALS LLC ACREAGE: 183.31
 OIL & GAS ROYALTY OWNER: APP MINERALS LLC

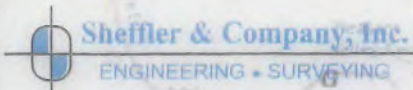
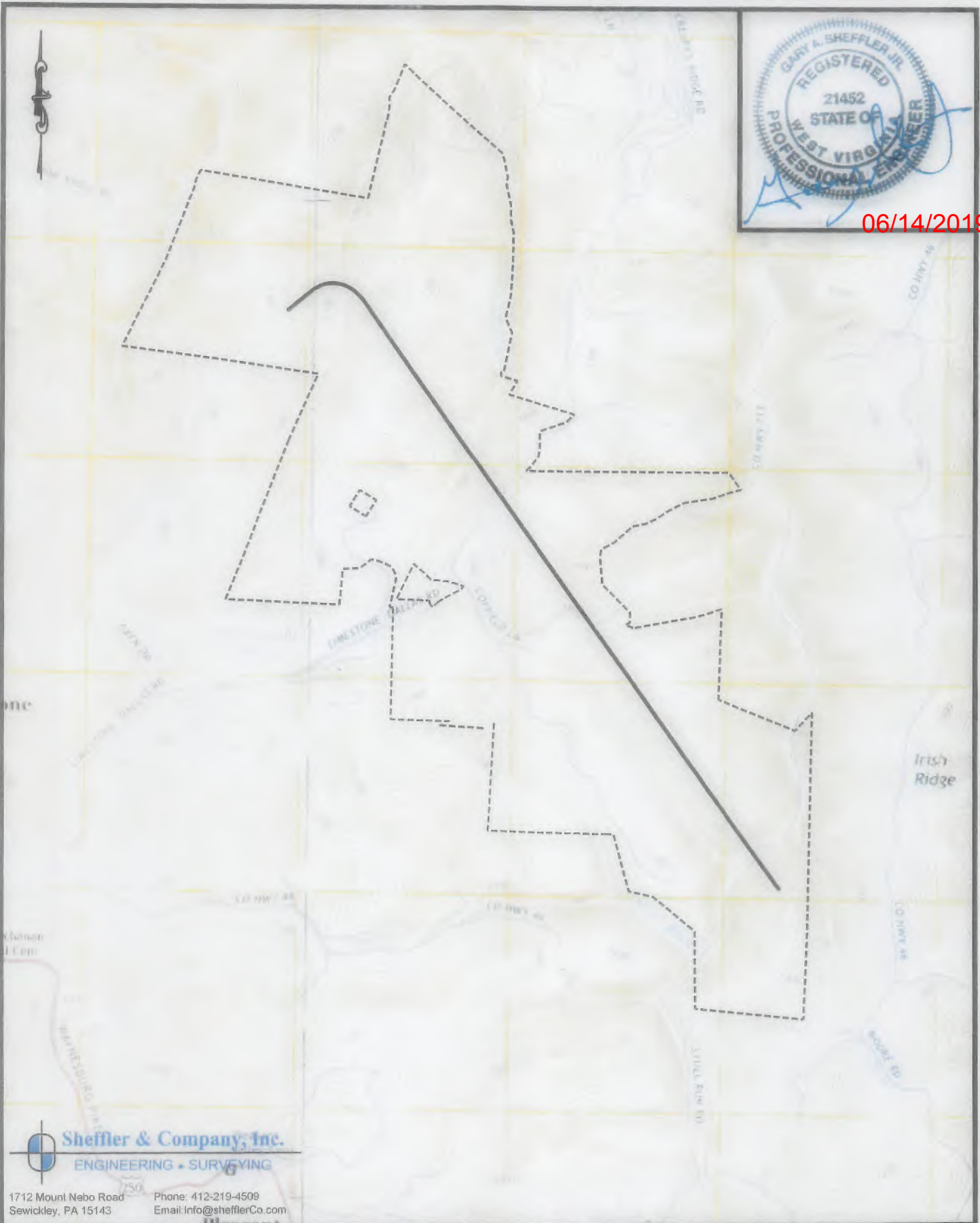
ACREAGE: 183.31

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
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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



06/14/2019



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

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



DATE: February 7, 2019 - REV - April 30, 2019

OPERATOR'S WELL #: RIVERRUN-4UH

API WELL # 47 051 02178 H6A
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,264.94'

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

SURFACE OWNER: APP MINERALS LLC ACREAGE: 183.31

OIL & GAS ROYALTY OWNER: APP MINERALS LLC ACREAGE: 183.31

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
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City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



06/14/2019

TAX MAP NO.
15-0002-0016-0000-0000
ASSESSED ACREAGE: 183.31 ACRES

SURFACE OWNERS:
APP MINERAL, LLC

MINERAL OWNERS:
APP MINERALS, LLC

TAX MAP NO.
15-0002-0013-0000-0000
ASSESSED ACREAGE: 94.04 ACRES

SURFACE OWNERS:
BOCK, JEFFERY T.

MINERAL OWNERS:
JEFFREY T. BOCK,
SALLY A. HUNTER-BOCK

TAX MAP NO.
15-0007-0022-0001-0000
ASSESSED ACREAGE: 3.00 ACRES

SURFACE OWNERS:
BURKLE, GERALD E., ET AL.

MINERAL OWNERS:
DAVID SCOTT CAIN
BRENT EUGENE CAIN
THOMAS DEAN CAIN

TAX MAP NO.
15-0002-0002-0000-0000
ASSESSED ACREAGE: 132.77 ACRES

SURFACE OWNERS:
ISKCON NEW MATHURA VRINDABAN

MINERAL OWNERS:
AMP FUND III, LP

TAX MAP NO.
15-0007-0021-0000-0000
ASSESSED ACREAGE: 59.80 ACRES

SURFACE OWNERS:
RIEDMAN, THOMAS MERLIN, ET UX.

MINERAL OWNERS:
GARY W. STROPE AND RICKEE J. STROPE,
TRUSTEES OF THE STROPE FAMILY
TRUST DATED MARCH 29, 2017

TAX MAP NO.
15-0007-0023-0003-0000
ASSESSED ACREAGE: 17.02 ACRES

SURFACE OWNERS:
HASLAM, LORRAINE

MINERAL OWNERS:
LORRAINE HASLAM

TAX MAP NO.
15-0002-0015-0000-0000
ASSESSED ACREAGE: 171.32 ACRES

SURFACE OWNERS:
HARRY B. SNYDER AND
ELIZABETH JANE SNYDER,
TRUSTEES OF THE SNYDER FAMILY TRUST,
DATED DECEMBER 17, 2014

MINERAL OWNERS:
HARRY B. SNYDER AND
ELIZABETH JANE SNYDER,
TRUSTEES OF THE SNYDER FAMILY TRUST,
DATED DECEMBER 17, 2014

TAX MAP NO.
15-0002-0013-0001-0000
ASSESSED ACREAGE: 40.21 ACRES

SURFACE OWNERS:
PARSONS, THOMAS EVERETT, SR.

MINERAL OWNERS:
RESOURCE MINERALS HEADWATER I, LP

TAX MAP NO.
15-0007-0023-0003-0000
ASSESSED ACREAGE: 17.02 ACRES

SURFACE OWNERS:
HASLAM, LORRAINE

MINERAL OWNERS:
LORRAINE HASLAM

TAX MAP NO.
15-0007-0024-0000-0000
ASSESSED ACREAGE: 57.64 ACRES

SURFACE OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

MINERAL OWNERS:
ISKCON NEW VRINDABAN, INC.

TAX MAP NO.
15-0002-0014-0000-0000
ASSESSED ACREAGE: 126.12 ACRES

SURFACE OWNERS:
HARRY B. SNYDER AND
ELIZABETH JANE SNYDER,
TRUSTEES OF THE SNYDER FAMILY TRUST,
DATED DECEMBER 17, 2014

MINERAL OWNERS:
HARRY B. SNYDER AND
ELIZABETH JANE SNYDER,
TRUSTEES OF THE SNYDER FAMILY TRUST,
DATED DECEMBER 17, 2014

TAX MAP NO.
15-0002-0019-0000-0000
ASSESSED ACREAGE: 1.73 ACRES

SURFACE OWNERS:
RIEDMAN, THOMAS MERLIN, ET UX.

MINERAL OWNERS:
GARY W. STROPE AND RICKEE J. STROPE,
TRUSTEES OF THE STROPE FAMILY TRUST
DATED MARCH 29, 2017

TAX MAP NO.
15-0007-0023-0000-0000
ASSESSED ACREAGE: 19.61 ACRES

SURFACE OWNERS:
HASLAM, LORRAINE, ET AL.,
AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP

MINERAL OWNERS:
LORRAINE & SRI HASLAM

TAX MAP NO.
15-0002-0019-0000-0000
ASSESSED ACREAGE: 0.27 ACRES

SURFACE OWNERS:
WEST VIRGINIA DEPARTMENT OF
TRANSPORTATION, DIVISION OF HIGHWAYS

MINERAL OWNERS:
WEST VIRGINIA DEPARTMENT OF
TRANSPORTATION, DIVISION OF HIGHWAYS

TAX MAP NO.
15-0007-0023-0002-0000
ASSESSED ACREAGE: 1.18 ACRES

SURFACE OWNERS:
HASLAM, LORRAINE, ET AL.,

MINERAL OWNERS:
LORRAINE & SRI HASLAM

TAX MAP NO.
15-0002-0008-0000-0000
ASSESSED ACREAGE: 19.22 ACRES

SURFACE OWNERS:
ONE WORLD ONE FAMILY NOW, INC.

MINERAL OWNERS:
ONE WORLD ONE FAMILY NOW, INC.

TAX MAP NO.
15-0007-0022-0000-0000
ASSESSED ACREAGE: 48.77 ACRES

SURFACE OWNERS:
BOCK, THOMAS A., ET UX.,
AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP

MINERAL OWNERS:
BRENT E. CAIN,
DAVID S. CAIN,
HERMAN D. LANTZ,
THOMAS A. & PAMELA L. BOCK,
THOMAS D. CAIN

TAX MAP NO.
15-0007-0027-0000-0000
ASSESSED ACREAGE: 76.34 ACRES

SURFACE OWNERS:
COFFIELD, WILLIAM E., ET UX.,
AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP

MINERAL OWNERS:
WILLIAM E. COFFIELD AND BRENDA K. COFFIELD

TAX MAP NO.
15-0002-0009-0000-0000
ASSESSED ACREAGE: 8.74 ACRES

SURFACE OWNERS:
MAHATME, HIRA
(A/K/A HIRA MAHATME-HARRIS)

MINERAL OWNERS:
MAHATME, HIRA

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



DATE: February 7, 2019 - REV - April 30, 2019

OPERATOR'S WELL #: RIVERRUN-4UH

API WELL # 47 051 02178HgA
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,264.94'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDVILLE, WV

SURFACE OWNER: APP MINERALS LLC ACREAGE: 183.31

OIL & GAS ROYALTY OWNER: APP MINERALS LLC ACREAGE: 183.31

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: 23,314' ±

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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

06/14/2019

TAX MAP NO.
15-0007-0026-0002-000
ASSESSED ACREAGE: 6.75 ACRES
SURFACE OWNERS:
RICE, STEVEN T, ET UX.
MINERAL OWNERS:
STEVEN T. & TAMMIE R. RICE

TAX MAP NO.
15-0007-0026-0000-0000
ASSESSED ACREAGE: 81.67 ACRES
SURFACE OWNERS:
COFFIELD, BETTY GENEVA
MINERAL OWNERS:
BETTY GENEVA COFFIELD,
DEBRA & PAUL HOLDREN,
JUDITH LAWHEAD,
KIMBER LEE LAWHEAD

TAX MAP NO.
15-0007-0024-0001-0000
ASSESSED ACREAGE: 56.78 ACRES
SURFACE OWNERS:
ECO-VRINDABAN, INC., D/B/A
GORAKSHYA-SEVA AND ENVIRONMENTAL
EDUCATION TRUST OF AMERICA, INC.
MINERAL OWNERS:
ECO-VRINDABAN, INC., D/B/A
GORAKSHYA-SEVA AND ENVIRONMENTAL
EDUCATION TRUST OF AMERICA, INC..

TAX MAP NO.
15-0009-0001-0000-0000
ASSESSED ACREAGE: 44.00 ACRES
SURFACE OWNERS:
SCHRACK, TROY D. & SHERRY L.
MINERAL OWNERS:
GARNET RUBY BUSH AND KENNETH R. BUSH,
CO-TRUSTEES OF THE GARNETT BUSH FAMILY
TRUST, DATED APRIL 16, 2018
BRENT M. BUSH,
LAWRENCE L. GILMORE,
EILEEN GILMORE MERCADO AND ALBERT MERCADO

TAX MAP NO.
15-0007-0025-0000-000
ASSESSED ACREAGE: 10 ACRES
SURFACE OWNERS:
COFFIELD, WILLIAM E., ET UX.
MINERAL OWNERS:
BETTY GENEVA COFFIELD,
WILLIAM E. & BRENDA K. COFFIELD

TAX MAP NO.
15-0009-0001-0001-0000
ASSESSED ACREAGE: 7.74 ACRES
SURFACE OWNERS:
SCHRACK, DAVID W.
MINERAL OWNERS:
GARNET RUBY BUSH AND KENNETH R. BUSH,
CO-TRUSTEES OF THE GARNETT BUSH FAMILY
TRUST, DATED APRIL 16, 2018
BRENT M. BUSH,
LAWRENCE L. GILMORE,
EILEEN GILMORE MERCADO AND ALBERT MERCADO

TAX MAP NO.
15-0006-0016-0000-0000
ASSESSED ACREAGE: 77.4 ACRES
SURFACE OWNERS:
COFFIELD, WILLIAM E., ET UX.
MINERAL OWNERS:
BETTY GENEVA COFFIELD,
WILLIAM E. & BRENDA K. COFFIELD

TAX MAP NO.
15-0007-0026-0001-0000
ASSESSED ACREAGE: 1.58 ACRES
SURFACE OWNERS:
RICE, STEVEN T, ET UX.
MINERAL OWNERS:
JENNIFER L. RICE

TAX MAP NO.
15-0007-0030-0000-0000
ASSESSED ACREAGE: 40.00 ACRES
SURFACE OWNERS:
SCHRACK, DAVID W.
MINERAL OWNERS:
DAVID SCHRACK

(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS
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