

Well is located on topo map 2,195 feet south of Latitude: 39° 57' 30"

**Sheffler & Company, Inc.**  
ENGINEERING • SURVEYING

1712 Mount Nebo Road  
Sewickley, PA 15143

Phone: 412-219-4509  
Email: Info@shefflerCo.com

SHL

TOTAL UNIT  
395.22 ACRES

01/18/2019

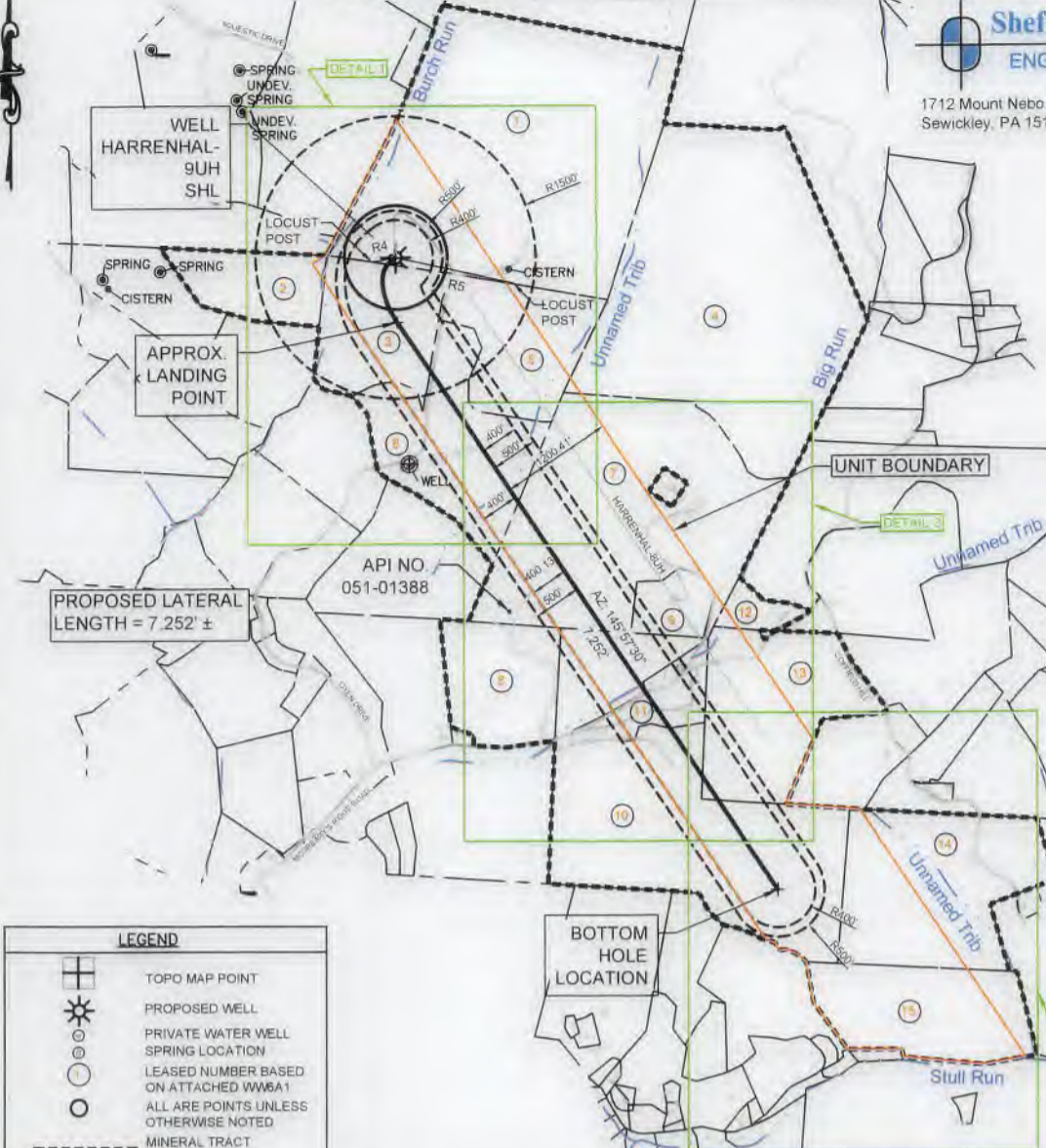
REFERENCE DETAIL



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

Well is located on topo map 2,224 feet west of Longitude: 80° 37' 30"



**LEGEND**

- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL
- SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED WVA61
- 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'**  
NO DEEP WELLS WITHIN 3000'

MONUMENT REFERENCE TABLE

LINE NO	BEARING	DISTANCE
R1	S3°05'58"W	400.83'
R2	N79°26'16"E	258.46'
R3	N49°18'04"W	539.90'
R4	N79°26'16"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, WV 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, WV NORTH  
N 530258.340(ft)  
E 1682346.352(ft)  
LAT/LON - NAD83  
LAT N39.9504199  
LON W80.6328468

**BOTTOM HOLE LOCATION (BHL)**

UTM 17 - NAD83  
N 4420509.165(m)  
E 532629.945(m)  
NAD27, WV NORTH  
N 524250.171(ft)  
E 1686405.209(ft)  
LAT/LON - NAD83  
LAT N39.9340671  
LON W80.6181035

FILE # HARRENHAL-9UH

DRAWING # HARRENHAL-9UH-R1.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:

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 / UNION QUADRANGLE: MOUNDSVILLE, WV/ MAJORSVILLE, 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: 19,070' ±

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: July 6, 2018 - REV 9/19/2018

OPERATOR'S WELL #: HARRENHAL-9UH

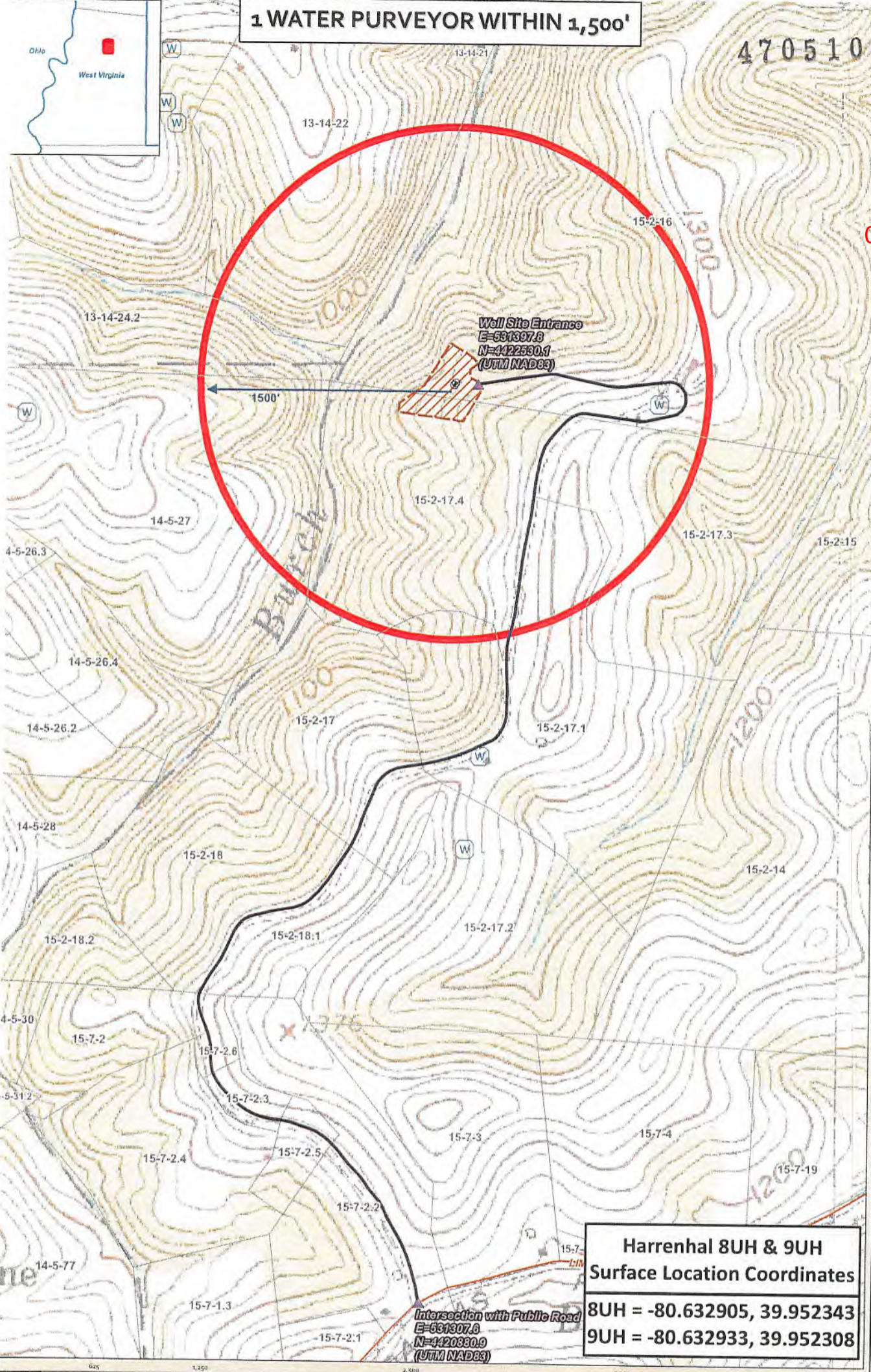
API WELL # 47 051 02091

STATE COUNTY PERMIT

1 WATER PURVEYOR WITHIN 1,500'

4705102091

01/18/2019



Well Site Entrance  
 E=531307.8  
 N=4422630.1  
 (UTM NAD83)

**Harrenhal 8UH & 9UH  
 Surface Location Coordinates**  
 8UH = -80.632905, 39.952343  
 9UH = -80.632933, 39.952308

Intersection with Public Road  
 E=531307.8  
 N=4420830.9  
 (UTM NAD83)

**Harrenhal 8UH & 9UH - Water Source**

Marshall County West Virginia	Coordinate System: Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983 Linear Units: Meter	Map Scale Units: 1:7,500 1 inch = 513 feet	Map Author: J.S. Map Date: 2/22/18
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- Well SHL
- Well Pad
- Access Rd Intersection
- Access Road
- Water Well
- 1,500' Buffer
- Parcels



RECEIVED  
 Office of Oil and Gas

JUL 30 2018

WV Department of  
 Environmental Protection