

Well is located on topo map 2,182 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

01/11/2019

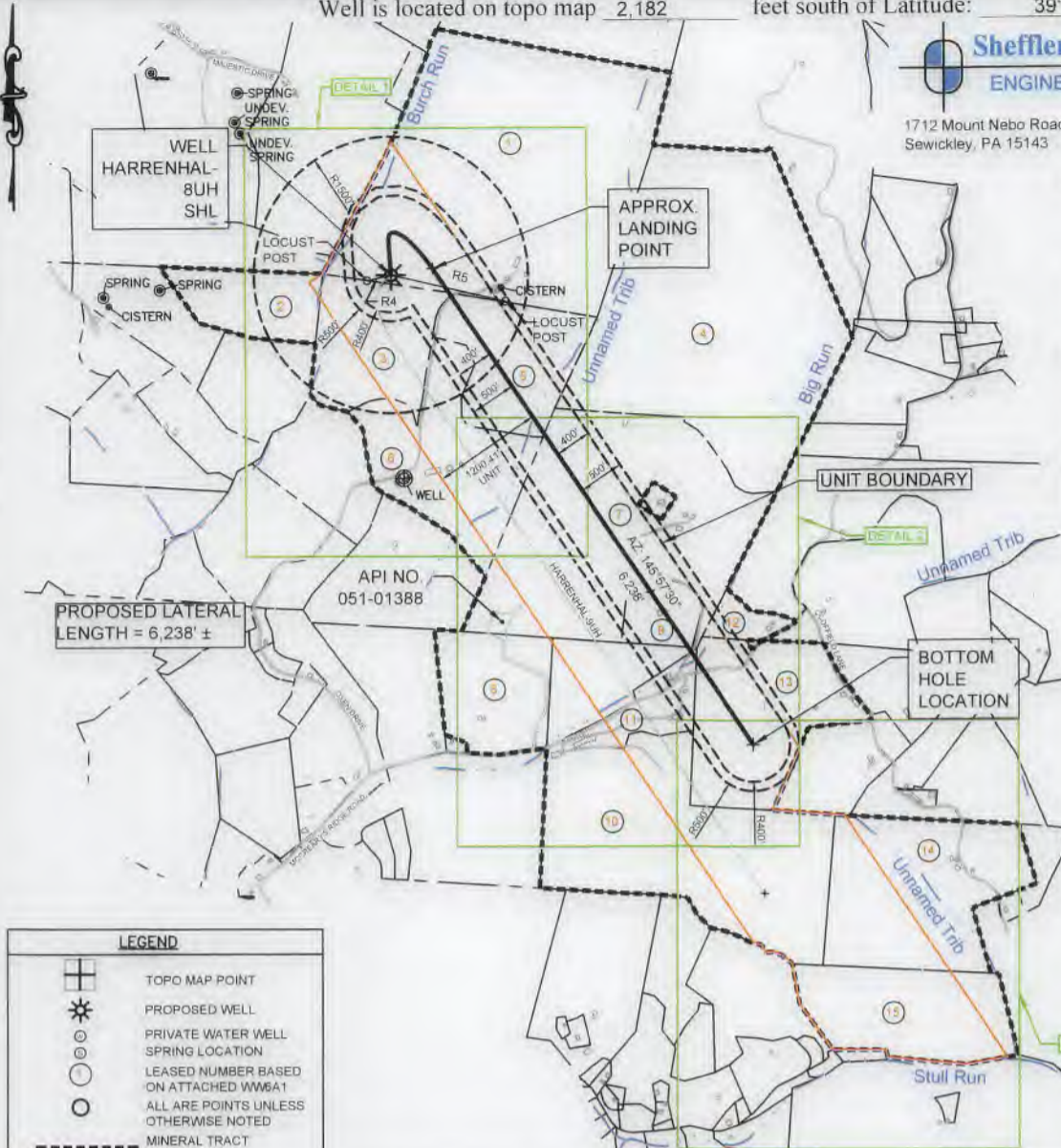
REFERENCE DETAIL



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 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

Well is located on topo map 2,216 feet west of Longitude: 80° 37' 30"



**LEGEND**

- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL
- SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED WM6A1
- 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'

| LINE NO. | BEARING     | DISTANCE |
|----------|-------------|----------|
| R1       | S1°59'50"W  | 387.81'  |
| R2       | N77°06'10"E | 269.02'  |
| R3       | N47°41'26"W | 542.19'  |
| R4       | N77°06'10"E | 269.02'  |
| R5       | N77°09'53"W | 1283.74' |

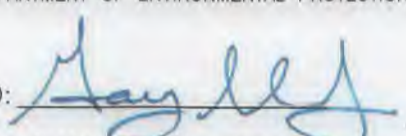
| SURFACE HOLE LOCATION (SHL)   |
|---|
| UTM 17 - NAD83<br>N: 4422532.261(m)<br>E: 531356.922(m)<br>NAD27 - WV NORTH<br>N: 530958.940(ft)<br>E: 1682338.823(ft)<br>LAT/LON - NAD83<br>LAT: N39.9523428<br>LON: W80.6329051 |

| APPROXIMATE LANDING POINT   |
|---|
| UTM 17 - NAD83<br>N: 4422555.638(m)<br>E: 531494.664(m)<br>NAD27 - WV NORTH<br>N: 531028.084(ft)<br>E: 1682792.092(ft)<br>LAT/LON - NAD83<br>LAT: N39.9525483<br>LON: W80.6312915 |

| BOTTOM HOLE LOCATION (BHL)  |
|---|
| UTM 17 - NAD83<br>N: 4420998.973(m)<br>E: 532584.653(m)<br>NAD27 - WV NORTH<br>N: 525859.973(ft)<br>E: 1686283.440(ft)<br>LAT/LON - NAD83<br>LAT: N39.9384819<br>LON: W80.6186091 |

FILE # HARRENHAL-8UH  
DRAWING # HARRENHAL-8UH-R1.DWG  
SCALE: 1"=2000'  
MINIMUM DEGREE OF ACCURACY: 1/2500  
PROVEN SOURCE: USGS MONUMENT  
OF ELEVATION: 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

DATE: July 6, 2018 - REV 9/19/2018  
OPERATOR'S WELL #: HARRENHAL-8UH  
API WELL # 47 051 02090 H6A  
STATE COUNTY PERMIT

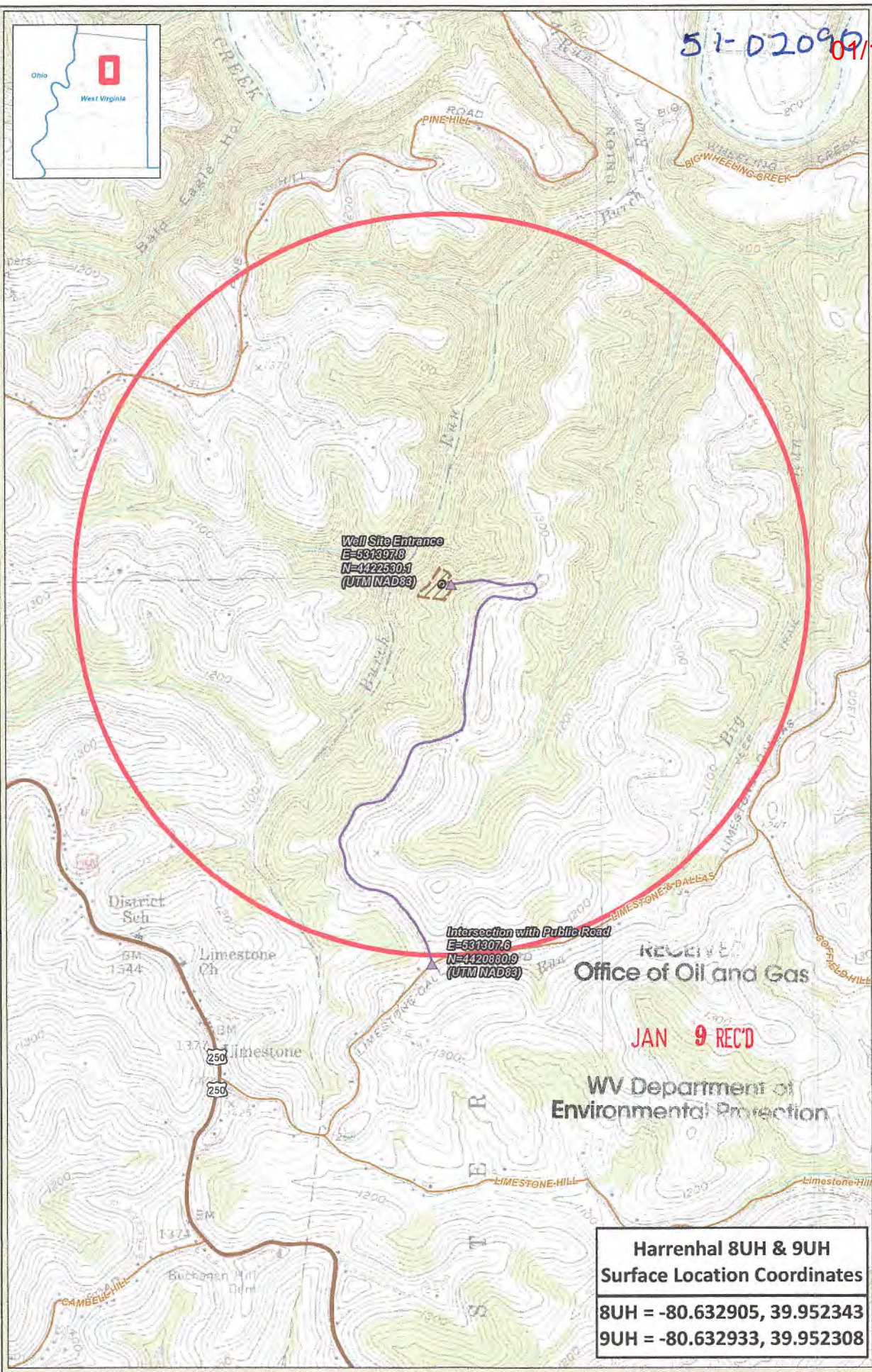
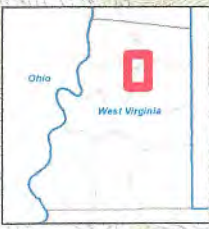
WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,134.2'  
COUNTY/DISTRICT: MARSHALL / UNION QUADRANGLE: MOUNDSVILLE, WV/ MAJORSVILLE, WV  
SURFACE OWNER(1): APP MINERALS LLC ACREAGE(1): 183.31 SURFACE OWNER(2): ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2): 39.39  
OIL & GAS ROYALTY OWNERS(1): APP MINERALS LLC ACREAGE(1): 183.31  
OIL & GAS ROYALTY OWNERS(2): ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2): 39.39

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

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: 18,094' ±  
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

51-02095 01/11/2019



**Harrenhal 8UH & 9UH  
Surface Location Coordinates**

**8UH = -80.632905, 39.952343**

**9UH = -80.632933, 39.952308**

### Harrenhal 8UH & 9UH - Well Site

Marshall County  
West Virginia

Coordinate System: Co-ordinate System: NAD 1983 UTM Zone 18N  
Projection: Transverse Mercator  
Datum: North American 1983  
Units: Meter

Map Scale Units: 1:11,500  
1 inch = 1,250 Feet

Map Author: JES  
Map Date: 2/22/2018

- Well SHL
- Well Pad
- 1 mile Buffer
- Access Rd Intersection
- Access Road
- US Route
- Local Road

