

Well is located on topo map 31 feet south of Latitude: 39° 57' 30"

Well is located on topo map 680

feet west of Longitude: 80° 35' 00"

SURFACE HOLE LOCATION (SHL)
 PAD CENTER EL. = 1153.60
 UTM 17 - NAD83
 N: 4423205.173
 E: 535380.941
 NAD27, WV NORTH
 N: 532946.044
 E: 1695580.158
 LAT/LON DATUM-NAD83
 LAT: 39.958247
 LON: -80.585760

APPROX. LANDING POINT
 UTM 17 - NAD83
 N: 4423023.813 (M)
 E: 535060.647 (M)
 NAD27, WV NORTH
 N: 532368.50
 E: 1694519.20
 LAT/LON DATUM-NAD83
 LAT: 39.9566261
 LON: -80.5895202

BOTTOM HOLE LOCATION
 UTM 17 - NAD83
 N: 4425148.830
 E: 534144.114
 NAD27, WV NORTH
 N: 539392.168
 E: 1691628.216
 LAT/LON DATUM-NAD83
 LAT: 39.975809
 LON: -80.600139

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, and based on record deed descriptions, field evidence found and/or tax map positions, unless otherwise noted.

Waterford Corporate Park II, Suite 101
 3000 Georgetown Drive
 Sewickley, PA 15143

P: 724-444-1100
 F: 724-444-1104
 www.pve-llc.com



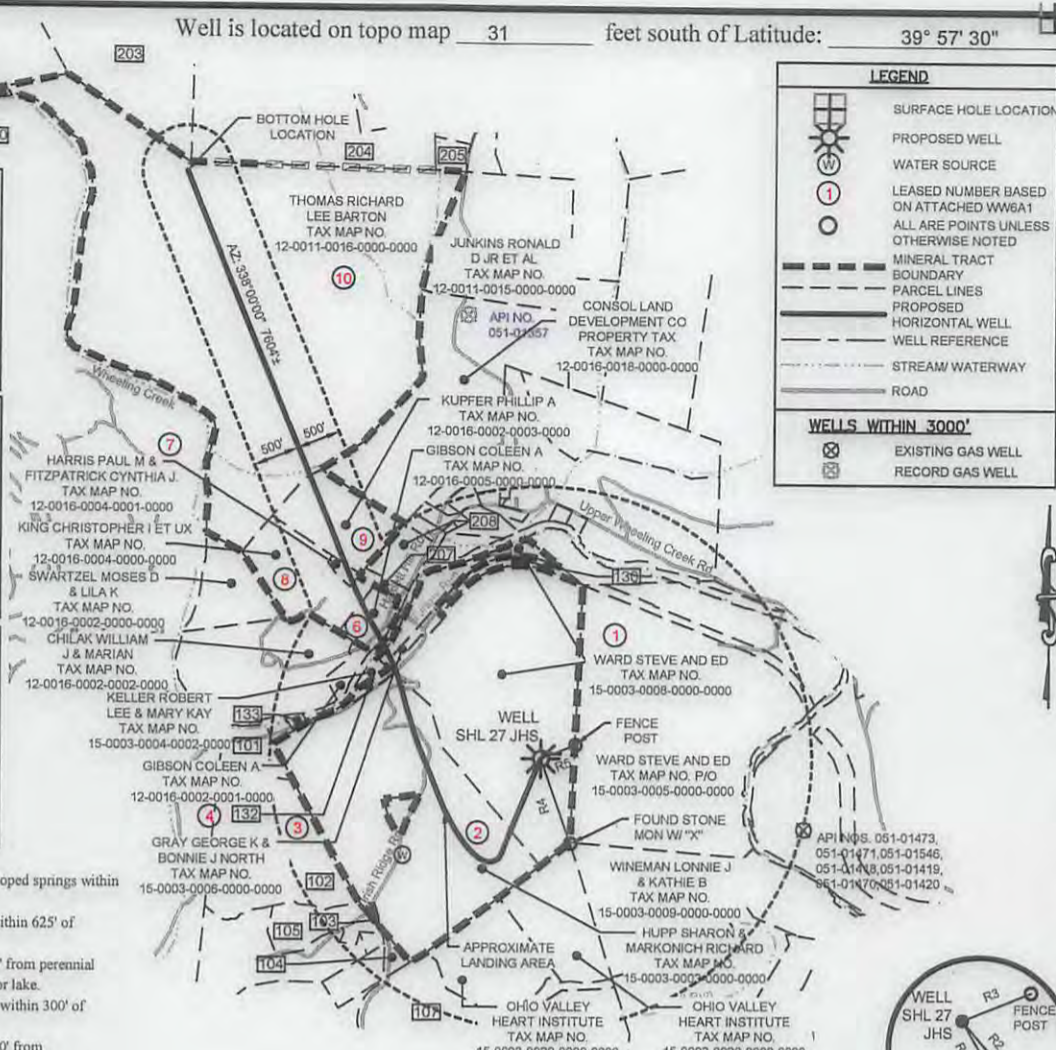
Civil Engineering | Land Development | Structure Design
 Land Planning | Landscape Architecture | Environmental

LEGEND

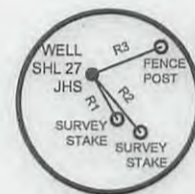
- SURFACE HOLE LOCATION
- PROPOSED WELL
- WATER SOURCE
- LEASED NUMBER BASED ON ATTACHED WVG61
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD

WELLS WITHIN 3000'

- EXISTING GAS WELL
- RECORD GAS WELL



101	JAGA INC.	TAX MAP NO. 15-0003-0001-0000-0000
102	MARKONICH RICHARD J & SHARON L	TAX MAP NO. 15-0003-0002-0000-0000
103	LITTLE JOHN W EST	TAX MAP NO. 15-0003-0022-0000-0000
104	OHIO VALLEY HEART INSTITUTE	TAX MAP NO. 15-0003-0025-0001-0000
105	BENNETT ROBERT A ET UX	TAX MAP NO. 15-0003-0025-0005-0000
107	EBERT RENEE LYNN GRIMM	TAX MAP NO. 15-0003-0021-0000-0000
130	JONES EVELINE J	TAX MAP NO. 15-0003-0008-0000-0000
132	KELLER ROBERT LEE & MARY KAY	TAX MAP NO. 15-0003-0003-0002-0000
133	PARKER PETER	TAX MAP NO. 15-0003-0004-0000-0000
200	HICKEY GLENN M	TAX MAP NO. 15-0001-0008-0001-0000
201	HICKEY GLENN M	TAX MAP NO. 12-0010-0008-0000-0000
202	TOLAND DOROTHY J WINNER SANDRA J	TAX MAP NO. 12-0011-0003-0000-0000
203	MILLER DOROTHY T ET AL	TAX MAP NO. 12-0011-0004-0000-0000
204	GRAY DONALD G & DAVID G	TAX MAP NO. 12-0011-0008-0000-0000
205	HILLBERRY PAUL E JR	TAX MAP NO. 12-0011-0009-0003-0000
207	TERRY JOHN G II	TAX MAP NO. 12-0016-0007-0000-0000
208	HOWARD WELDON M ET UX	TAX MAP NO. 12-0016-0008-0000-0000



REFERENCE DETAIL

LINE TABLE

LINE	BEARING	DISTANCE
R1	N29°29'42"W	285.54'
R2	N39°54'32"W	418.71'
R3	S68°04'24"W	408.16'
R4	N19°32'53"W	982.87'
R5	S68°04'24"W	408.16'

FILE #: SHL 27 JHS
 DRAWING #: SHL 27 JHS
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT U 124: 951.16'

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.: _____ 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 ELEVATION: 1,153.60'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, W. VA
 SURFACE OWNER: STEVE WARD AND ED WARD ACREAGE: 122.47
 OIL & GAS ROYALTY OWNER: BOUNTY MINERALS, LLC ACREAGE: 122.47

DATE: NOVEMBER 18, 2014 - REV. JULY 20, 2017

OPERATOR'S WELL #: SHL 27 JHS

API WELL # 47 051 D1958

STATE COUNTY PERMIT H6A

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: MARCELLUS ESTIMATED DEPTH: TVD: 6,200' ± TMD: 14,616' ±
 WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
 Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
 City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

11/03/2017

SHEET: 1 OF 2

Bottom hole is located on topo map 8814 feet south of Latitude: 40° 00' 00"

Bottom hole is located on topo map 4713 feet west of Longitude: 80° 35' 00"

SURFACE HOLE LOCATION (SHL)
 PAD CENTER EL. = 1153.80
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 N: 4423205.173
 E: 535380.941
 NAD27, WV NORTH
 N: 532946.044
 E: 1695580.158
 LAT/LON DATUM-NAD83
 LAT: 39.958247
 LON: -80.585760

APPROX. LANDING POINT
 UTM 17 - NAD83
 N: 4423018.020
 E: 535046.766
 NAD27, WV NORTH
 N: 532350.259
 E: 1694473.334
 LAT/LON DATUM-NAD83
 LAT: 39.956574
 LON: -80.589683

BOTTOM HOLE LOCATION
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 N: 4425148.830
 E: 534144.114
 NAD27, WV NORTH
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 E: 1691628.216
 LAT/LON DATUM-NAD83
 LAT: 39.975809
 LON: -80.600139

LEGEND

- SURFACE HOLE LOCATION
- PROPOSED WELL
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- LEASED NUMBER BASED ON ATTACHED WABA1
- ALL ARE POINTS UNLESS OTHERWISE NOTED
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WELLS WITHIN 3000'

- EXISTING GAS WELL
- RECORD GAS WELL



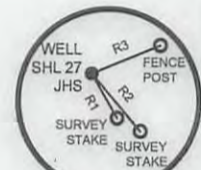
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Wainwright Corporate Park, Suite 101 P: 724-444-1100
 2000 Georgetowne Drive F: 724-444-1104
 Sewickley, PA 15143 www.pve-llc.com



Civil Engineering | Land Development | Structure Design
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OPERATOR'S WELL #: SHL 27 JHS HGA

API WELL # 47 051 01958
 STATE COUNTY PERMIT DD

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

SHEET: 2 OF 2

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 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, W. VA
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11/03/2017