

BHL is located on topo map 11,478 feet south of Latitude: 39°15'00"
 SHL is located on topo map 9,376 feet south of Latitude: 39°17'30"

BHL is located on topo map 9,186 feet west of Longitude: 80°10'00"
 SHL is located on topo map 2,709 feet west of Longitude: 80°12'30"

	SURFACE OWNER	DIST-TM/PAR
1	JUDY M. OSBORN (LE) (JUDY M. OSBORN IRREVOCABLE TRUST)	15-330/5
2	CHARLES THOMAS DAVIS II, ET AL	15-330/5.1
3	CHARLES THOMAS DAVIS II, ET AL	15-330/4
4	CAROLYN S. HARRON	15-330/3
5	CHARLES E. REED 1/2 INTEREST GERALD W. BURNER ET AL 1/2 INTEREST	15-330/25
6	PAUL E. BALL	15-330/29
7	MICHAEL A. & ROBERTA OSBORN	15-330/26.1
8	SCOT S. & LYNN B. DIERINGER	15-330/26
9	MICHAEL A. & ROBERTA OSBORN	15-350/4
10	MICHAEL A. & ROBERTA OSBORN	15-350/32
11	MICHAEL A. & ROBERTA OSBORN	15-350/4.2
12	VICKI R. OSBORN	15-350/4.1
13	JASON OSBORN	15-350/4.3
14	RUSSELL E. RUTAN JR. & DOROTHY L. & JOHN TIMOTHY BELOTTE	15-350/5
15	GOBEL G. OSBORN JR. (LE) (MICHAEL BRUCE & JASON OSBORN)	15-350/6
16	R. MARK & DIANA L. HACKETT	15-350/18
17	DONALD N. & CYNTHIA J. MCHENRY	15-350/16.2
18	BRIAN J. & ANDREA L. MILLS	15-350/17.7
19	BRIAN J. & ANDREA L. MILLS	15-350/17.6
20	CALEB L. & JENNIFER L. CUTRIGHT	15-350/17.8
21	BRIAN J. & ANDREA L. MILLS	15-350/17.5
22	GARY & MARGARET WHEELER	15-350/17.2
23	CALEB L. & JENNIFER L. CUTRIGHT	15-350/17.3
24	JASON MICHAEL SLEETH	15-350/17.1
25	CHRISTOPHER F. & PAMELA MULLEN	15-350/25.3
26	JAY D. & TIFFANY BROOKE WILLIAMS	15-350/26.1
27	LEWIS FRANKLIN & PAMELA MULLEN	15-350/25
28	JAY D. & TIFFANY B. WILLIAMS	15-350/27.1
29	LEWIS FRANKLIN & PAMELA MULLEN	15-350/27
30	CHARLES W. CLEVENGER IRR TRUST	15-370/13
31	SHAWN R. NEWBROUGH	15-370/21
32	EIP III WEST VIRGINIA LLC	15-370/29
33	EIP III WEST VIRGINIA LLC	15-371/7.1
34	EIP III WEST VIRGINIA LLC	15-371/7

	LESSOR	DIST-TM/PAR
A	GOBEL OSBORN, ET AL	15-330/5
B	J. EARL TETER, WIDOWER, ET AL	1-330-5.1
C	CHARLES THOMAS DAVIS, ET UX	15-330/4
D	GEORGE T. FARIS, ET AL	15-330/3
E	JOHN B. WEBB ET AL	15-330/25
F	THE BOARD OF EDUCATION OF THE COUNTY OF HARRISON	15-330/29
G	MARY ALICE HAFER REV TRUST MICHAEL A. OSBORN ET UX	15-330/26.1
H	MARY ALICE HAFER	15-330/26
J	NORVIL D. LANTZ	15-350/5
K	ALDERSON BROADDUS COLLEGE & AMP FUND III, LP	15-350/18
L	MARY LANCASTER CASTILOW ET AL	15-350/18
M	REBECCA A. COMPTON; JAMES MICHAEL COMPTON & JENNIFER NORA COMPTON	15-350/16.2 15-350/17.7 15-350/17.6 15-350/17.8 15-350/17.5 15-350/17.2 15-350/17.3 15-350/17.1
N	GRAFTON COAL COMPANY	P/O 15-350/25.3 P/O 15-350/26.1 15-350/25 15-350/25
P	LEWIS FRANKLIN MULLEN	15-350/27 15-350/27.1 15-370/13
Q	W. R. JOHNSON ET AL	15-370/29 15-371/7 15-371/7.1 15-370/21
R	N. D. PARKS ET AL	15-370/21

04/12/2019



SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4346578.59
 E:567469.58
 NAD83, WV NORTH
 N:279782.669
 E:1765244.012
 LAT/LON DATUM-NAD83
 LAT:39.265925
 LON:-80.217900

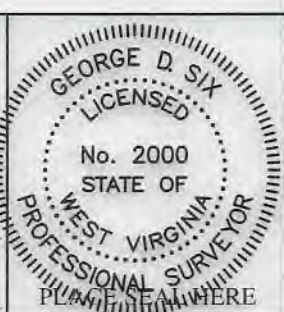
APPROX. LANDING POINT
 UTM 17-NAD83
 N:4346172.50
 E:567375.49
 NAD83, WV NORTH
 N:278455.282
 E:1764913.110
 LAT/LON DATUM-NAD83
 LAT:39.262272
 LON:-80.219031

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4341328.27
 E:569138.80
 NAD83, WV NORTH
 N:262463.300
 E:1770434.903
 LAT/LON DATUM-NAD83
 LAT:39.218486
 LON:-80.199092

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

FILE #: J OSBORN HSOP 16 203
 DRAWING #: J OSBORN HSOP 16 203
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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: George D. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000



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



DATE: DECEMBER 19, 2018
 OPERATOR'S WELL #: J OSBORN HSOP 16 203
 API WELL #: 47 33 05941
 STATE COUNTY PERMIT

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

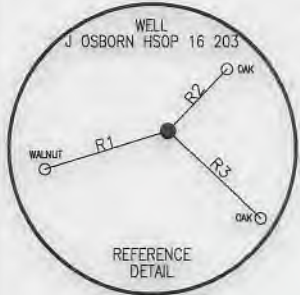
WATERSHED: SIMPSON CREEK ELEVATION: 1163.30'±
 COUNTY/DISTRICT: HARRISON / SIMPSON QUADRANGLE: ROSEMONT, WV 7.5'
 SURFACE OWNER: JUDY M OSBORN (LE) (JUDY M OSBORN IRREVOCABLE TRUST) ACREAGE: 70.00±
 OIL & GAS ROYALTY OWNER: GOBEL OSBORN, ET AL ACREAGE: 1690.279±

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: (LATERAL)TVD: 7,108.3'± TMD: 24,486.47'±
 WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT WILLIAM VEIGEL
 Address 6031 WALLACE ROAD EXTENSION, SUITE 300 Address 65 PROFESSIONAL PLACE, SUITE 200
 City WEXFORD State PA Zip Code 15090 City BRIDGEPORT State WV Zip Code 26330

J OSBORN HSOP 16 203

PAGE 2 OF 2



SURFACE HOLE LOCATION (SHL)

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LAT:39.218486
LON:-80.199092

04/12/2019

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.

LINE	BEARING	DISTANCE
R1	S 72°36'39" W	228.12'
R2	N 43°37'20" E	150.12'
R3	S 46°54'51" E	224.15'
R4	N 15°32'40" W	974.20'
R5	N 29°30'21" E	998.47'
R6	N 47°38'00" E	1657.68'



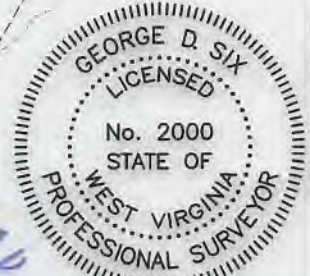
LEGEND

- TOPO MAP POINT
- WELL
- ALL ARC POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- LESSORS
- SURFACE OWNERS
- PARCEL LINES
- LEASE BOUNDARY
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE

WELLS WITHIN 2400'

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS

DECEMBER 19, 2018



Blue Mountain
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

George D. Six