

BHL is located on topo map 11,173 feet south of Latitude: 39° 15' 00"
 SHL is located on topo map 9,370 feet south of Latitude: 39° 17' 30"

BHL is located on topo map 10,199 feet west of Longitude: 80° 10' 00"
 SHL is located on topo map 2,709 feet west of Longitude: 80° 12' 30"

04/12/2019

	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	15-330/4
3	CAROLYN S. HARRON	15-330/3
4	CHARLES E. REED 1/2 INTEREST GERALD W. BURNER ET AL 1/2 INTEREST	15-330/25
5	MICHAEL A. & ROBERTA OSBORN	15-350/4
6	RUSSELL E., JR. & DOROTHY J. RUTAN & JOHN TIMOTHY BELOTTE	15-350/5
7	GORDON F. OSBORN (LE) (BRIAN MATTHEW OSBORN)	15-350/3
8	GORDON F. OSBORN (LE) (BRIAN MATTHEW OSBORN)	15-350/3.3
9	GORDON F. & DONNA R. OSBORN (BRIAN MATTHEW OSBORN)	15-350/3.1
10	GOBEL G. OSBORN JR. (LE) (MICHAEL BRUCE & JASON OSBORN)	15-350/6
11	GORDON F. OSBORN (LE) (BRIAN MATTHEW OSBORN)	15-350/16.1
12	DONALD N. & CYNTHIA J. MCHENRY	15-350/16.4
13	DONALD N. & CYNTHIA J. MCHENRY	15-350/16.2
14	DONALD NEIL & CYNTHIA JANE MCHENRY	15-350/16.8
15	ALLEN & N. J. CHENOWETH C/O CHRISTOPHER L. HUMMEL	15-350/16.5
16	CHRISTOPHER F. & PAMELA MULLEN	15-350/25.3
17	RICHARD L. LAUGHLIN JR.	15-350/25.1
18	CHRISTOPHER F. & PAMELA MULLEN	15-350/25.2
19	CHARLES W. CLEVINGER IRR TRUST C/O MARY M. TUCKER	15-350/24
20	CHARLES W. CLEVINGER IRR TRUST	15-370/13
21	SHAWN R. NEWBROUGH	15-370/21
22	EIP III WEST VIRGINIA LLC	15-370/29
23	EIP III WEST VIRGINIA LLC	15-371/7.1
24	EIP III WEST VIRGINIA LLC	15-371/7

	LESSOR	DIST-TM/PAR
A	GOBEL OSBORN, ET AL	15-330/5
B	GEORGE T. FARIS, ET AL	15-330/3
C	CHARLES THOMAS DAVIS, ET UX	15-330/4
D	JOHN B. WEBB, ET AL	15-330/25
E	MICHAEL A. OSBORN ET UX	15-350/4
F	NORVIL D. LANTZ	15-350/5
G	XTO ENERGY INC.	15-350/3
		15-350/3.1
		15-350/3.3
H	ALDERSON BROADDUS COLLEGE & AMP FUND III, LP	15-350/6
J	REBECCA A. COMPTON; JAMES MICHAEL COMPTON & JENNIFER NOR COMPTON	15-350/16.1
		15-350/16.2
		15-350/16.8
		15-350/16.5
K	GRAFTON COAL COMPANY	15-350/25.3
		15-350/25.1
		15-350/25.2
L	CLARENCE E. CLEVINGER IRR TRUST	15-350/24
M	W. R. JOHNSON ET AL	15-370/13
		15-370/29
		15-371/7.1
		15-371/7
N	N. D. PARKS ET AL	15-370/21



SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4346580.45
 E:567465.40
 NAD83, WV NORTH
 N:279788.999
 E:1765230.413
 LAT/LON DATUM-NAD83
 LAT:39.265942
 LON:-80.217947

APPROX. LANDING POINT
 UTM 17-NAD83
 N:4346083.68
 E:567131.50
 NAD83, WV NORTH
 N:278177.142
 E:1764107.652
 LAT/LON DATUM-NAD83
 LAT:39.261492
 LON:-80.221869

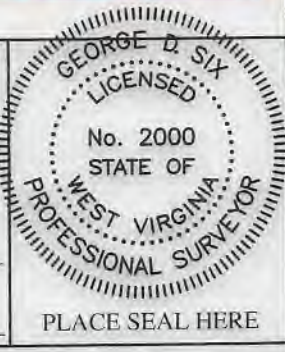
BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4341418.45
 E:568829.67
 NAD83, WV NORTH
 N:262776.056
 E:1769425.451
 LAT/LON DATUM-NAD83
 LAT:39.219325
 LON:-80.202661



SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

FILE #: J OSBORN HSOP 16 202
 DRAWING #: J OSBORN HSOP 16 202
 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: JANUARY 3, 2019
 OPERATOR'S WELL #: J OSBORN HSOP 16 202
 API WELL #: 47 33 05950
 STATE COUNTY PERMIT

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

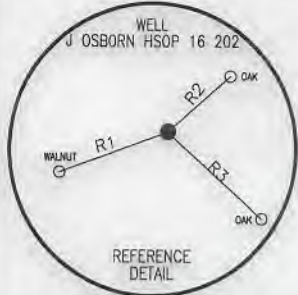
WATERSHED: SIMPSON CREEK ELEVATION: 1163.30'±
 COUNTY/DISTRICT: HARRISON / SIMPSON QUADRANGLE: ROSEMONT, WV 7.5'
 SURFACE OWNER: JUDY M OSBORN (LE) (JUDY M OSBORN IRREVOCABLE TRUST) ACREAGE: 70.00±
 OIL & GAS ROYALTY OWNER: GOBEL OSBORN, ET AL ACREAGE: 1498.434±

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: 24,052.43'±
 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 16 202

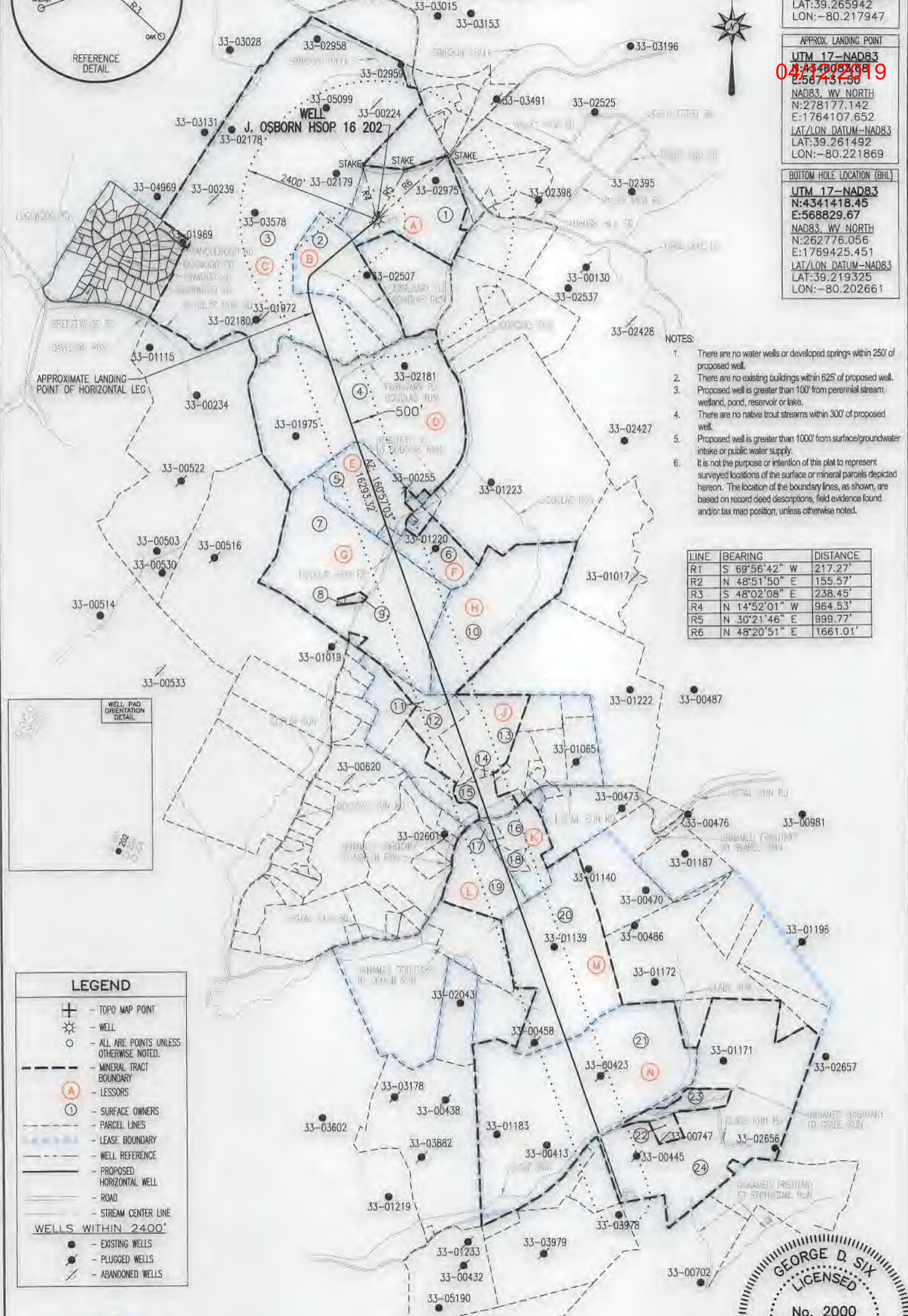
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- NOTES:**
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 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 69°56'42" W	217.27'
R2	N 48°51'50" E	155.57'
R3	S 48°02'08" E	238.45'
R4	N 14°52'01" W	964.53'
R5	N 30°21'46" E	999.77'
R6	N 48°20'51" E	1661.01'



LEGEND

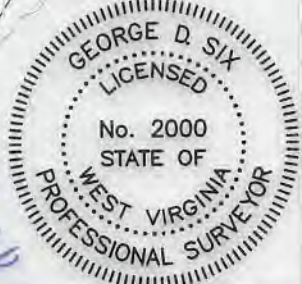
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- LESSORS
- SURFACE OWNERS
- PARCEL LINES
- LEASE BOUNDARY
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE

WELLS WITHIN 2400'

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS

JANUARY 3, 2019

George D. Six



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