

BHL is located on topo map 12,147 feet south of Latitude: 39° 15' 00"
 SHL is located on topo map 9,386 feet south of Latitude: 39° 17' 30"

BHL is located on topo map 10,226 feet west of Longitude: 80° 10' 00"
 SHL is located on topo map 2,781 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	15-330/4
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	GORDON F. OSBORN (LE) (BRIAN MATTHEW OSBORN)	15-350/3
7*	GORDON F. OSBORN (LE) (BRIAN MATTHEW OSBORN)	15-350/3.3
8*	GORDON F. & DONNA R. OSBORN (BRIAN MATTHEW OSBORN)	15-350/3.1
9	GORDON F. OSBORN (LE) (BRIAN MATTHEW OSBORN)	15-350/16.1
10	DONALD N. & CYNTHIA J. McHENRY	15-350/16.4
11	DONALD N. & CYNTHIA J. McHENRY	15-350/16.2
12	CHRISTOPHER L. HUMMEL	15-350/16.5
13	JASON J. POTH	15-350/16.9
14	CHARLES W. CLEVINGER IRR TRUST C/O MARY M. TUCKER	15-350/24
15	CHARLES W. CLEVINGER IRR TRUST	15-370/13
16	CHARLES W. CLEVINGER IRR TRUST	15-370/12
17	SHAWN R. NEWBROUGH	15-370/21
18	JOHN JAMES JONES C/O ANTHONY JONES	15-370/27
19	CHARLES A. & JOYCE G. MATHENY	15-370/28.1
20	CHARLES A. & JOYCE G. MATHENY	15-370/28

	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 15-350/16.4 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 15-370/12
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
P	JOHN JAMES JONES	P/O 15-370/27
Q	JOHN JAMES JONES AUDREY U. DAVIS ET UX.	P/O 15-370/27 15-370/28.1 15-370/28



AS-DRILLED LOCATIONS
UTM 17-MAD83(M)
SURFACE HOLE LOCATION (SHL)
N:4346580.450 E:567465.400
APPROX LANDING POINT (LP)
N:4346183.740 E:566999.850
BOTTOM HOLE LOCATION (BHL)
N:4341129.740 E:568839.420

THRASHER

THE THRASHER GROUP, INC.
 600 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE 304-624-4108

AS DRILLED PLAT

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

FILE #: J OSBORN HSOP 16 202 AS DRILLED
 DRAWING #: J OSBORN HSOP 16 202 AS DRILLED
 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: *Joseph H. Lowther*
 R.P.E.: _____ L.L.S.: P.S. No. 2346



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



DATE: JANUARY 20, 2022
 OPERATOR'S WELL #: J OSBORN HSOP 16 202 AS DRILLED
 API WELL #: 47 33 5950
 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: 1324.06±

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

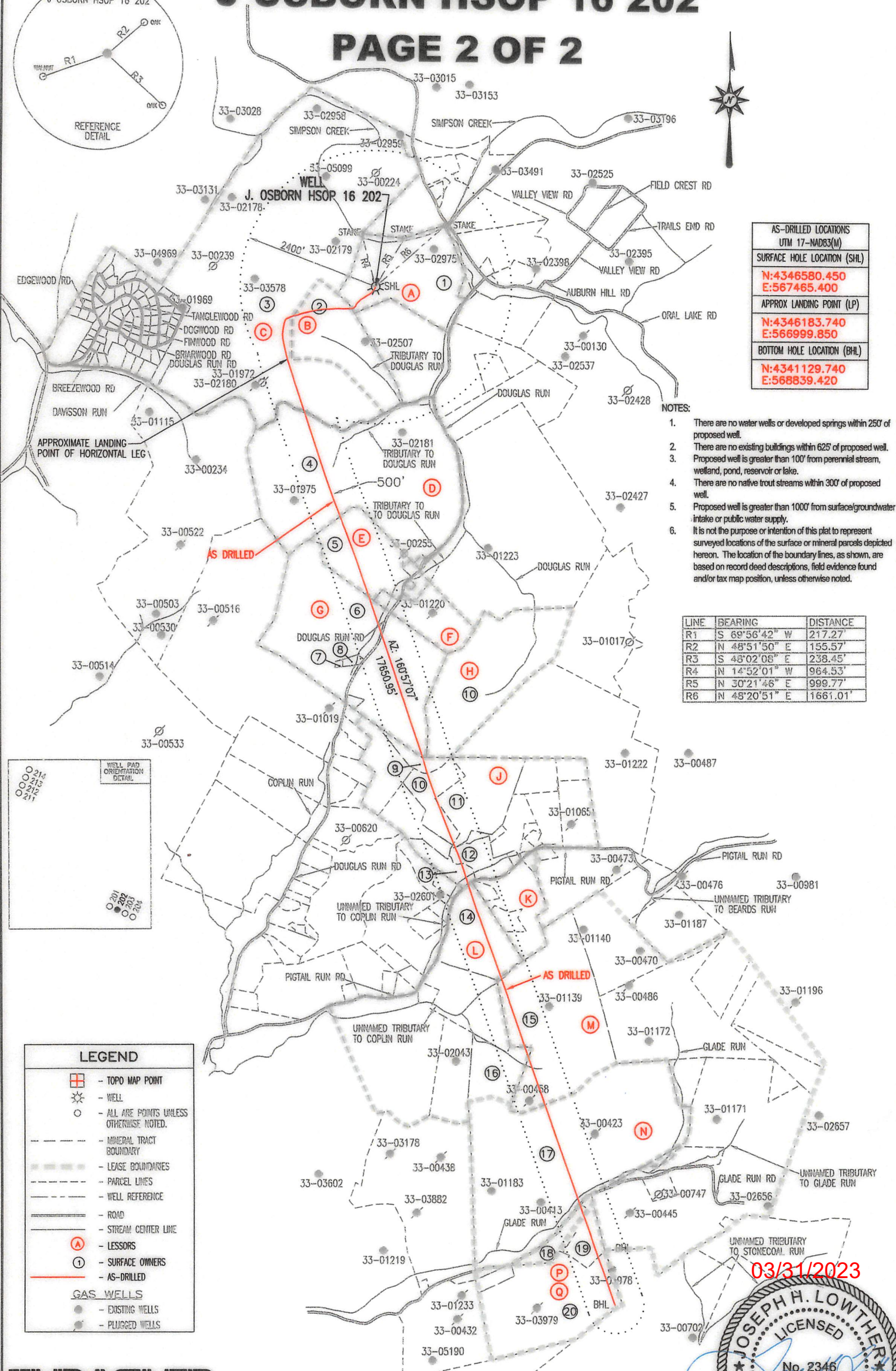
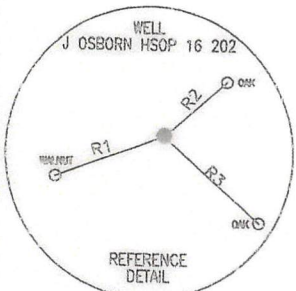
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,482.83'± TMD: 25,505.00'±

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT
 Address 6031 WALLACE ROAD EXTENSION, SUITE 300 Address 633 WEST MAIN ST.
 City WEXFORD State PA Zip Code 15090 City BRIDGEPORT State WV Zip Code 26330

03/31/2023

J OSBORN HSOP 16 202

PAGE 2 OF 2



AS-DRILLED LOCATIONS UTM 17-NAD83(M)
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APPROX LANDING POINT (LP)
N:4346183.740 E:566999.850
BOTTOM HOLE LOCATION (BHL)
N:4341129.740 E:568839.420

- 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
- LEASE BOUNDARIES
- PARCEL LINES
- WELL REFERENCE
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- AS-DRILLED
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS



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JANUARY 20, 2022
AS DRILLED PLAT