

BHL is located on topo map 11,096 feet south of Latitude: 39° 15' 00"  
 SHL is located on topo map 9,368 feet south of Latitude: 39° 17' 30"

BHL is located on topo map 10,072 feet west of Longitude: 80° 10' 00"  
 SHL is located on topo map 2,744 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	BRUCE OSBORN	15-350/15
10	R. MARK & DIANA L. HACKETT	15-350/18
11	DONALD N. & CYNTHIA J. McHENRY	15-350/16.4
12	DONALD N. & CYNTHIA J. McHENRY	15-350/16.2
13	DONALD N. & CYNTHIA J. McHENRY	15-350/16.8
14	CHRISTOPHER L. HUMMEL	15-350/16.5
15	CHRISTOPHER F. MULLEN	15-350/25.3
16	CHRISTOPHER F. MULLEN	15-350/25.2
17	CHARLES W. CLEVINGER IRR TRUST	15-370/13
18	SHAWN R. NEWBROUGH	15-370/21
19	EIP III WEST VIRGINIA LLC	15-371/7
20*	EIP III WEST VIRGINIA LLC	15-371/7.1
21*	EIP III WEST VIRGINIA LLC	15-371/29

	LESSOR	DIST-TM/PAR
A	GOBEL OSBORN, ET AL	15-330/5
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C	CHARLES THOMAS DAVIS, ET UX	15-330/4
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F	NORVAL D. LANTZ	15-350/5
G	XTO ENERGY INC.	15-350/3
		15-350/3.1
		15-350/3.3
H	ALDERSON BROADBUS COLLEGE & AMP FUND II, LP	15-350/6
I	MARY LANCASTER CASTLEW ET AL	15-350/18
J	REBECCA A. COMPTON, JAMES MICHAEL COMPTON & JENNIFER NOR COMPTON	15-350/16.1
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		15-350/16.5
K	GRAFTON COAL COMPANY	15-350/25.3
		15-350/25.1
		15-350/25.2
L	W. R. JOHNSON ET AL	15-370/13
		15-370/29
		15-371/7.1
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M	N. D. PARKS ET AL	15-370/21

4703306014



**THRASHER**

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

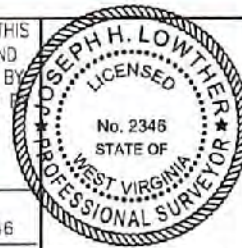
SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4346585.976 E:567476.438 NAD83, WV NORTH (FT) N:279805.536 E:1765266.934	UTM 17-NAD83(M) N:4346233.568 E:567143.050 NAD83, WV NORTH (FT) N:278668.347 E:1764153.727	UTM 17-NAD83(M) N:4341450.224 E:568883.594 NAD83, WV NORTH (FT) N:262877.389 E:1769604.138

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

FILE #: J OSBORN HSOP 16 502  
 DRAWING #: J OSBORN HSOP 16 502  
 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: NOVEMBER 18, 2021  
 OPERATOR'S WELL #: J OSBORN HSOP 16 502  
 API WELL #: 47 33  
 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: ROSEMONI, 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: 1575.18±

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) IVD: 7475'± IVD: 24,835'±

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

RECEIVED Office of Oil and Gas

DEC 20 2021

WV Department of Environmental Protection

01/28/2022

AOR - Attachment "A1"







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# THRASHER

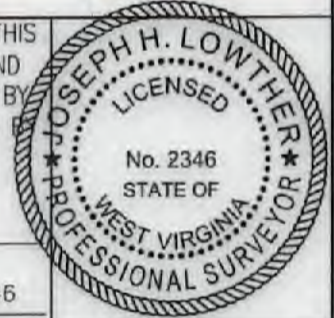
THE THRASHER GROUP, INC.  
 600 WHITE OAKS BLVD.  
 BRIDGEPORT, WV 26330  
 PHONE 304-624-4108

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

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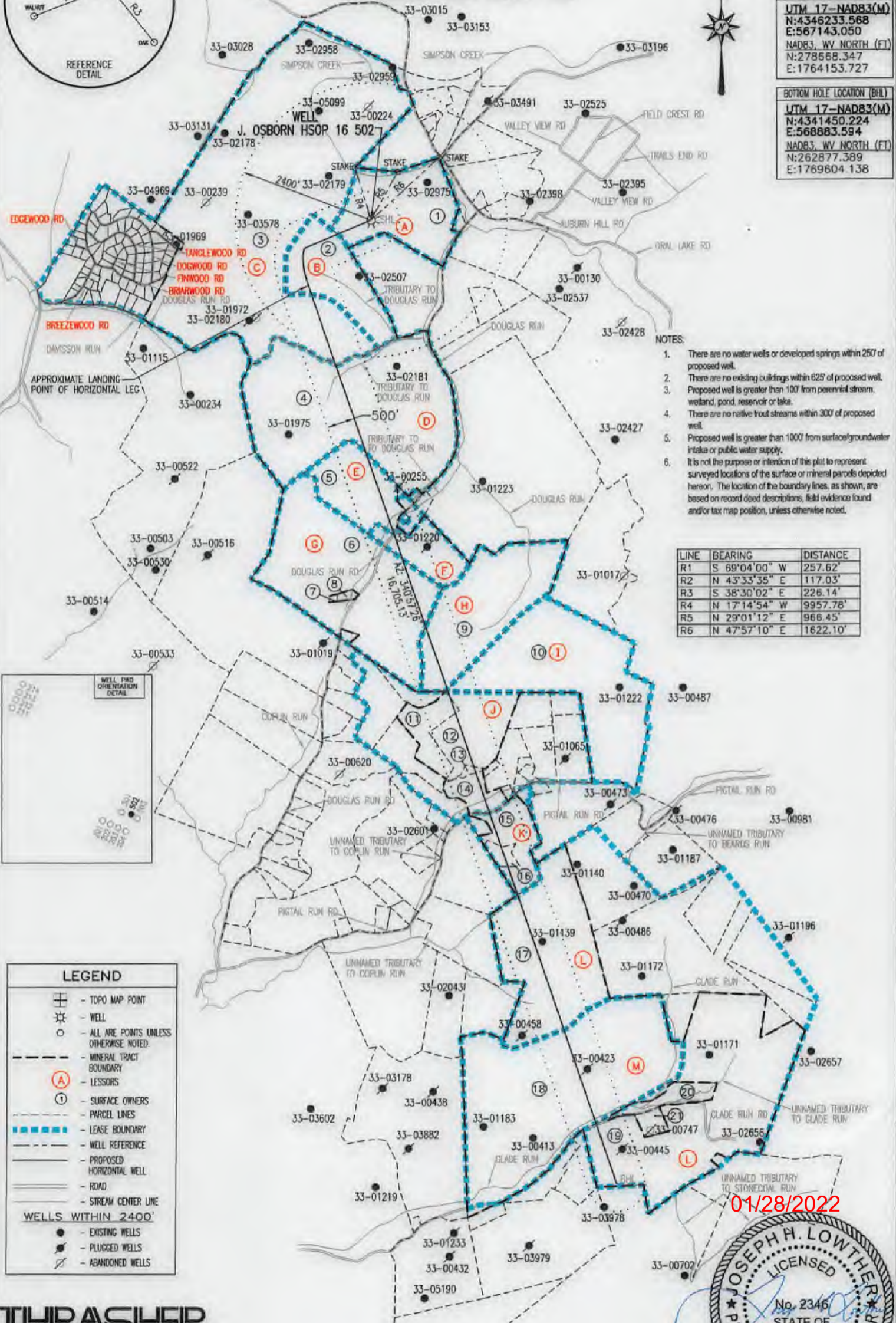
## PAGE 2 OF 2



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 E:567143.050  
 NAD83, WV NORTH (FT)  
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 N:4341450.224  
 E:568883.594  
 NAD83, WV NORTH (FT)  
 N:262877.389  
 E:1769604.138



- 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 herein. 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°04'00" W	257.62'
R2	N 43°33'35" E	117.03'
R3	S 38°30'02" E	226.14'
R4	N 17°14'54" W	9957.78'
R5	N 29°01'12" E	966.45'
R6	N 47°57'10" E	1622.10'



**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

01/28/2022



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NOVEMBER 18, 2021

47-033-06014