

BHL is located on topo map 11,169 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 8,984 feet west of Longitude: 80° 10' 00"
 SHL is located on topo map 2,733 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	CHARLES E. REED 1/2 INTEREST GERALD W. BURNER ET AL 1/2 INTEREST	15-330/25
4	SCOT S. & LYNN B. DIERINGER	15-330/26
5	RUSSELL E. RUTAN JR. & DOROTHY L. & JOHN TIMOTHY BELOTTE	15-350/5
6	GOBEL G. OSBORN JR. (LC) (MICHAEL BRUCE & JASON OSBORN)	15-350/6
7	R. MARK & DIANA L. HACKETT	15-350/18
8	DONALD N. & CYNTHIA J. MCHENRY	15-350/16.2
9	BRIAN J. & ANDREA L. MILLS	15-350/17.7
10	BRIAN J. & ANDREA L. MILLS	15-350/17.5
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12	CALEB L. & JENNIFER L. CUTRIGHT	15-350/17.3
13	JASON MICHAEL SLEETH	15-350/17.1
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15*	GARY & MARGARET WHEELER	15-350/17.2
16	JAY D. & TIFFANY B. WILLIAMS	15-350/27.1
17*	JAY D. & TIFFANY BROOKE WILLIAMS	15-350/26.1
18*	LEWIS FRANKLIN & PAMELA MULLEN	15-350/25
19	LEWIS FRANKLIN & PAMELA MULLEN	15-350/27
20	CHARLES W. CLEVINGER IRR TRUST	15-370/13
21	EIP III WEST VIRGINIA LLC	15-371/1
22	SHAWN R. NEWBROUGH	15-370/21
23	EIP III WEST VIRGINIA LLC	15-371/7
24	EIP III WEST VIRGINIA LLC	15-371/7.1
25*	EIP III WEST VIRGINIA LLC	15-370/29
26*	EIP III WEST VIRGINIA LLC	15-371/13
27	CHARLES THOMAS DAVIS, II ET AL	15-330/5.1

	LESSOR	DIST-TM/PAR
A	GOBEL OSBORN, ET AL	15-330/5
B	CHARLES THOMAS DAVIS, ET UX	15-330/4
C	JOHN B. WEBB ET AL	15-330/25
D	MARY ALICE HAFER	15-330/26
E	NORVIL D. LANTZ	15-350/5
F	ALDERSON BROADBUSH COLLEGE & AMP FUND III, LP	15-350/6
G	MARY LANCASTER CASTLOW ET AL	15-350/18
H	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
J	LEWIS FRANKLIN MULLEN	P/O 15-350/26.1 15-350/25 15-350/25
K	W. R. JOHNSON ET AL	15-350/27 15-350/27.1 15-370/13
L	N. D. PARKS ET AL	15-370/29 15-371/7 15-371/7.1 15-370/21
M	J. EARL TETER, WIDOWER, ET AL	15-330/5.1

4703306015



THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-1108

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4346583.787
E:567479.908
NAD83 WV NORTH (FT)
N:279798.161
E:1765278.201

APPROX LANDING POINT
UTM 17-NAD83(M)
N:4346388.849
E:567406.621
NAD83 WV NORTH (FT)
N:279196.309
E:1765027.626

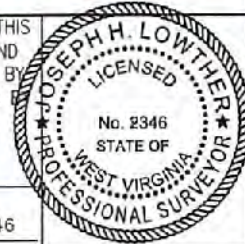
BOTTOM HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4341431.158
E:569215.252
NAD83 WV NORTH (FT)
N:262786.738
E:1770691.396

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

FILE #: J OSBORN HSOP 16 503
 DRAWING #: J OSBORN HSOP 16 503
 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: DECEMBER 09, 2021
 OPERATOR'S WELL #: J OSBORN HSOP 16 503
 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: 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: 1,399.52±
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

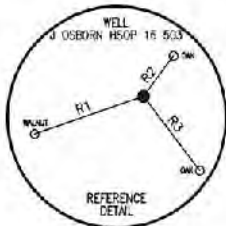
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: (LATERAL) 7475'± TMD: 25,306'±
 WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT
 Address 6031 WALLACE ROAD EXTENSION, SUITE 300 Address 633 WEST MAIN ST.
 City WEXFORD State PA Zip Code 15090 City BRIDGEPORT State WV Zip Code 26330

01/28/2022

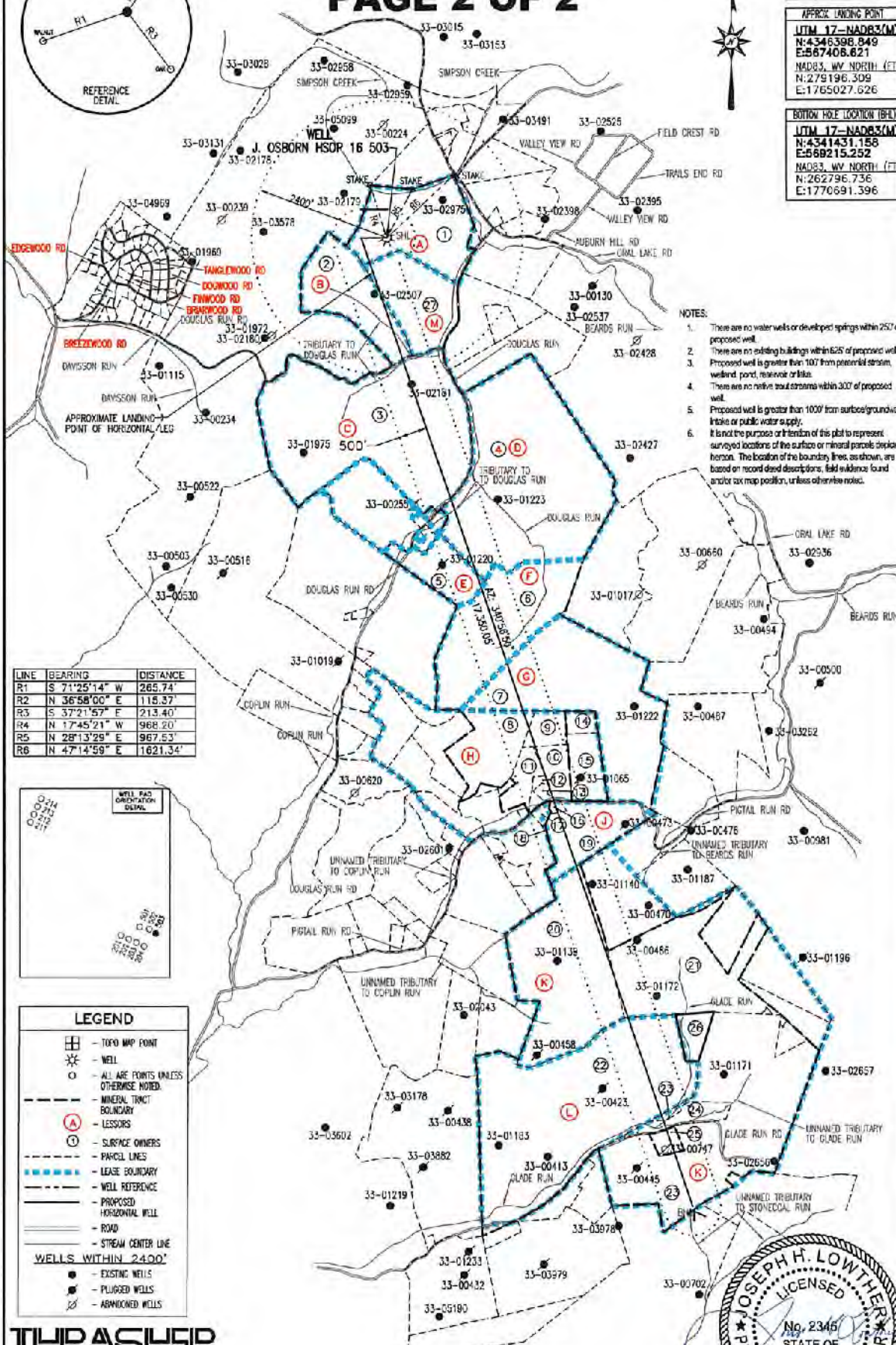
AOL - Attachment "A1"

J OSBORN HSOP 16 503

PAGE 2 OF 2

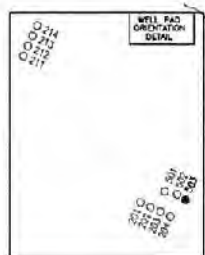


SURFACE HOLE LOCATION (TSD)	
UTM 17-NAD83(M)	N:43465873.787
	E:567479.808
NAD83, WV NORTH (FT)	N:279799.161
	E:1765278.231
APPROX LANDING POINT	
UTM 17-NAD83(M)	N:4346396.849
	E:567408.821
NAD83, WV NORTH (FT)	N:279196.309
	E:1765027.626
BOTTOM HOLE LOCATION (IBL)	
UTM 17-NAD83(M)	N:4341431.158
	E:5689215.252
NAD83, WV NORTH (FT)	N:262796.736
	E:1770691.396



- 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 potential stream, wetland, pond, reservoir or lake.
 4. There are no native sand streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. It is the purpose of this plan 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 71°25'14" W	265.74'
R2	N 36°58'00" E	116.37'
R3	S 37°21'57" E	213.40'
R4	N 17°45'21" W	968.20'
R5	N 28°13'28" E	967.53'
R6	N 47°14'59" E	1621.34'



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

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

DECEMBER 09, 2021



04/28/2022

AOK - Attachment "A2"

BHL is located on topo map 11,169 feet south of Latitude: 39°15'00"
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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4346583.787 E:567479.908 NAD83, WV NORTH (FT) N:279799.161 E:1765278.201	UTM 17-NAD83(M) N:4346398.849 E:567406.621 NAD83, WV NORTH (FT) N:279196.309 E:1765027.626	UTM 17-NAD83(M) N:4341431.158 E:569215.252 NAD83, WV NORTH (FT) N:262796.736 E:1770691.396

THRASHER

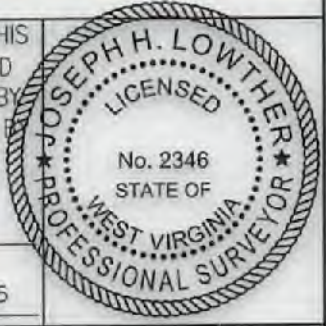
THE THRASHER GROUP, INC.
 600 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE 304-624-4108

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

FILE #: J OSBORN HSOP 16 503
 DRAWING #: J OSBORN HSOP 16 503
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 601 57TH STREET
 CHARLESTON, WV 25304



DATE: DECEMBER 09, 2021
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 API WELL #: 47 33 06015
 STATE COUNTY PERMIT

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

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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: 1.39852±

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: 7475'± TMD: 25,306'±

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

01/28/2022

J OSBORN HSOP 16 503

PAGE 2 OF 2



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EDGEWOOD RD

TANGLEWOOD RD
 DOGWOOD RD
 PINWOOD RD
 BRIARWOOD RD
 THURGOOD RD

BREEZEWOOD RD

DAVISSON RUN

DAVISSON RUN

APPROXIMATE LANDING POINT OF HORIZONTAL LEG

LINE	BEARING	DISTANCE
R1	S 71°25'14" W	265.74'
R2	N 36°58'00" E	115.37'
R3	S 37°21'57" E	213.40'
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- STREAM CENTER LINE

WELLS WITHIN 2400'

- EXISTING WELLS
- PLUGGED WELLS
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01/28/2022



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DECEMBER 09, 2021

47-033-06015