

BHL is located on topo map 11,188 feet south of Latitude: 39° 15' 00"
 SHL is located on topo map 9,376 feet south of Latitude: 39° 17' 30"

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| | SURFACE OWNER | DIST-TM/PAR |
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| 3 | CHARLES THOMAS DAVIS II, ET AL | 15-330/5.1 |
| 4 | CHARLES E. REED 1/2 INTEREST GERALD W. BURNER ET AL 1/2 INTEREST | 15-330/25 |
| 5 | PAUL E. BALL | 15-330/29 |
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| 28 | EIP III WEST VIRGINIA LLC | 15-371/7.1 |
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| D | JOHN B. WEBB ET AL | 15-330/25 |
| E | THE BOARD OF EDUCATION OF THE COUNTY OF HARRISON | 15-330/29 |
| F | MARY ALICE HAFER REV TRUST MICHAEL A. OSBORN ET UX | 15-330/26.1 |
| G | MARY ALICE HAFER | 15-330/28 |
| H | NORVIL D. LANTZ | 15-350/6 |
| J | ALDERSON BROADDUS COLLEGE & AMP FUND III, LP | 15-350/6 |
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| L | REBECCA A. COMPTON; JAMES MICHAEL COMPTON & JENNIFER NOGA COMPTON | 15-350/16.2 15-350/17.6 15-350/17.7 15-350/17.8 15-350/17.5 15-350/17.2 15-350/17.3 15-350/17.1 |
| M | GRAFTON COAL COMPANY | P/O 15-350/25.3 |
| N | LEWIS FRANKLIN MULLEN | P/O 15-350/26.1 15-350/25 15-350/25 |
| P | W. R. JOHNSON ET AL | 15-350/27 15-350/27.1 15-370/13 15-370/29 |
| Q | N. D. PARKS ET AL | 15-371/7 15-371/7.1 15-370/21 |



| SURFACE HOLE LOCATION (SHL) | APPROX. LANDING POINT | BOTTOM HOLE LOCATION (BHL) |
|--|--|--|
| UTM 17-NAD83(M) N:4348578.580 E:567469.580 NAD83_WY NORTH (FT) N:279782.869 E:1765244.012 | UTM 17-NAD83(M) N:4348342.210 E:567265.440 NAD83_WY NORTH (FT) N:279018.150 E:1764561.260 | UTM 17-NAD83(M) N:4341430.010 E:569053.360 NAD83_WY NORTH (FT) N:262801.790 E:1770160.100 |

THRASHER

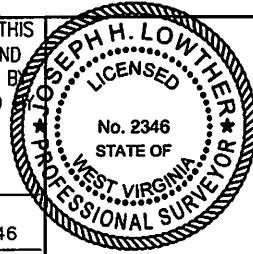
THE THRASHER GROUP, INC.
 600 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE 304-824-4108

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: *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: SEPTEMBER 24, 2021
 OPERATOR'S WELL #: J OSBORN HSOP 16 203
 API WELL #: 47 33 05941 H6A
 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: 1,607.99±

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

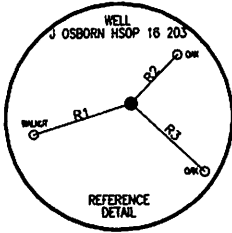
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: (LATERAL) TMD: 7,510'± TMD: 25,113'±

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

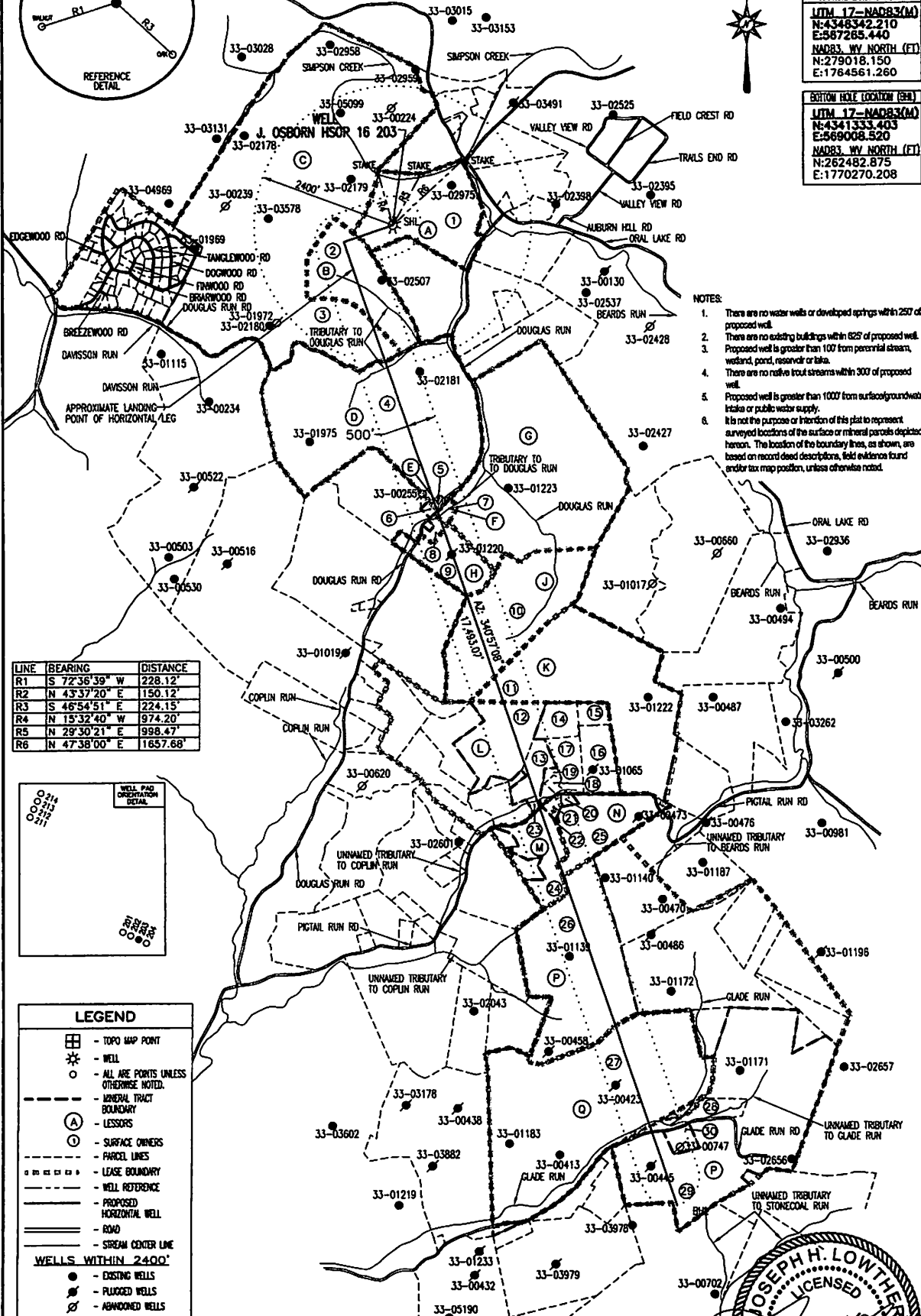
10/08/2021

J OSBORN HSOP 16 203

PAGE 2 OF 2

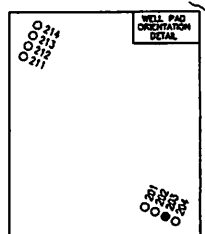


| SURFACE HOLE LOCATION (S#) | |
|----------------------------|---------------|
| UTM 17-NAD83(M) | N:4348978.580 |
| | E:567489.580 |
| NAD83, WV NORTH (FT) | |
| | N:279782.689 |
| | E:1765244.012 |
| APPROX. LANDING POINT | |
| UTM 17-NAD83(M) | N:4348342.210 |
| | E:567265.440 |
| NAD83, WV NORTH (FT) | |
| | N:279018.150 |
| | E:1764561.260 |
| BOTTOM HOLE LOCATION (B#) | |
| UTM 17-NAD83(M) | N:4341333.403 |
| | E:569008.520 |
| NAD83, WV NORTH (FT) | |
| | N:262482.875 |
| | E:1770270.208 |



- 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 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 | 1165.76' |



LEGEND

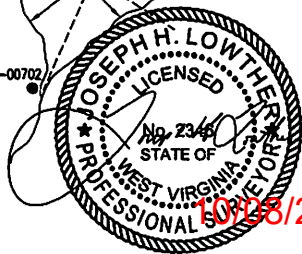
- ▣ - TOPO MAP POINT
- ⊙ - WELL
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- - - MINERAL TRACT BOUNDARY
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WELLS WITHIN 2400'

- - EXISTING WELLS
- ⊙ - PLUGGED WELLS
- ⊘ - ABANDONED WELLS

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

SEPTEMBER 24, 2021



10/28/2021

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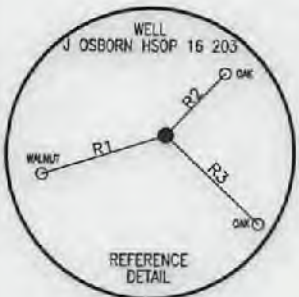
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 City WEXFORD State PA Zip Code 15090 City BRIDGEPORT State WV Zip Code 26330

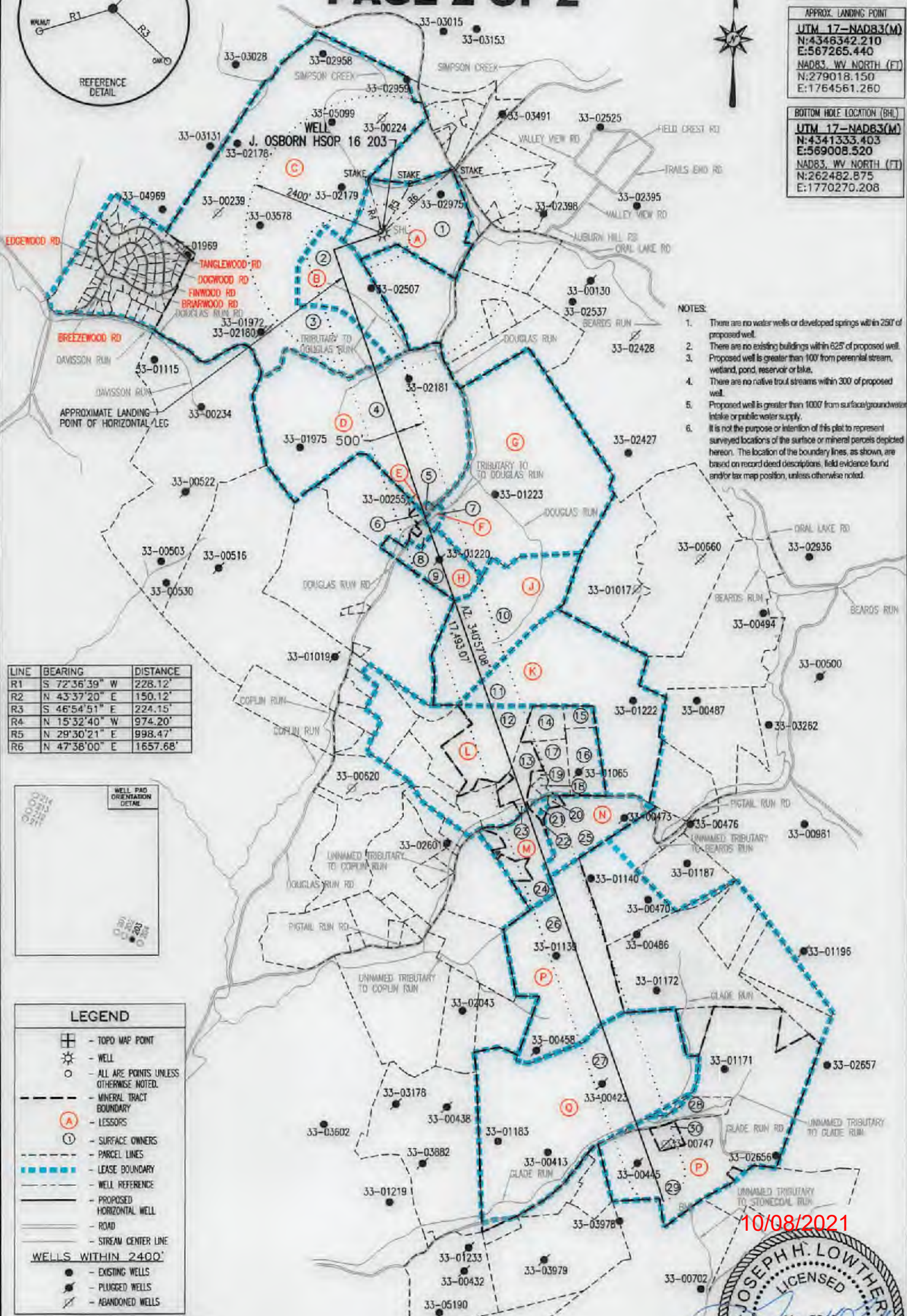
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J OSBORN HSOP 16 203

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WELLS WITHIN 2400'

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| K | ALDERSON BRADDOUS COLLEGE & AMF FUND III, LP | 15-350/6 |
| L | MARY LANCASTER CASTLE ET AL | 15-350/18 |
| M | REBECCA A. COMPTON, JAMES MICHAEL COMPTON & JENNIFER NORA COMPTON | 15-350/16.2 15-350/17.7 15-350/17.5 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 15-350/28.1 |
| P | LEWIS FRANKLIN MULLEN | 15-350/25 15-350/25 |
| Q | W. R. JOHNSON ET AL | 15-350/27 15-350/27.1 15-370/13 15-370/29 15-371/7 15-371/7.1 |
| R | N. D. PARKS ET AL | 15-370/21 |

BHL

SHL

THRASHER

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

SURFACE HOLE LOCATION (S#)
UTM 17-NAD83(M)
N:4346578.590
E:567469.580
NAD83, WV NORTH (FT)
N:279782.659
E:1765244.012

APPROX. LANDING POINT
UTM 17-NA083(M)
N:4346342.210
E:567265.440
NAD83, WV NORTH (FT)
N:279018.150
E:1764561.260

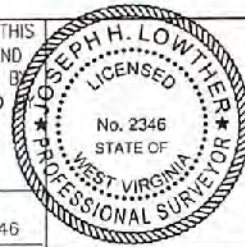
BOTTOM HOLE LOCATION (B#)
UTM 17-NAD83(M)
N:4341430.010
E:589053.360
NAD83, WV NORTH (FT)
N:262801.790
E:1770160.100

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: [Signature]
 R.P.E.: _____ L.L.S.: P.S. No. 2346



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



DATE: SEPTEMBER 13, 2021
 OPERATOR'S WELL #: J OSBORN HSOP 16 203
 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: 1,607.99±
 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) 7,510± TMD: 25,113±
 WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT
 Address 8031 WALLACE ROAD EXTENSION, SUITE 300 Address 633 WEST MAIN ST.
 City WEXFORD State PA Zip Code 15090 City BRIDGEPORT State WV Zip Code 26330

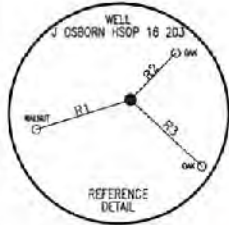
RECEIVED
 Office of Oil and Gas
 SEP 20 2021
 WV Department of
 Environmental Protection

See Attachment "A"

10/08/2021

J OSBORN HSOP 16 203

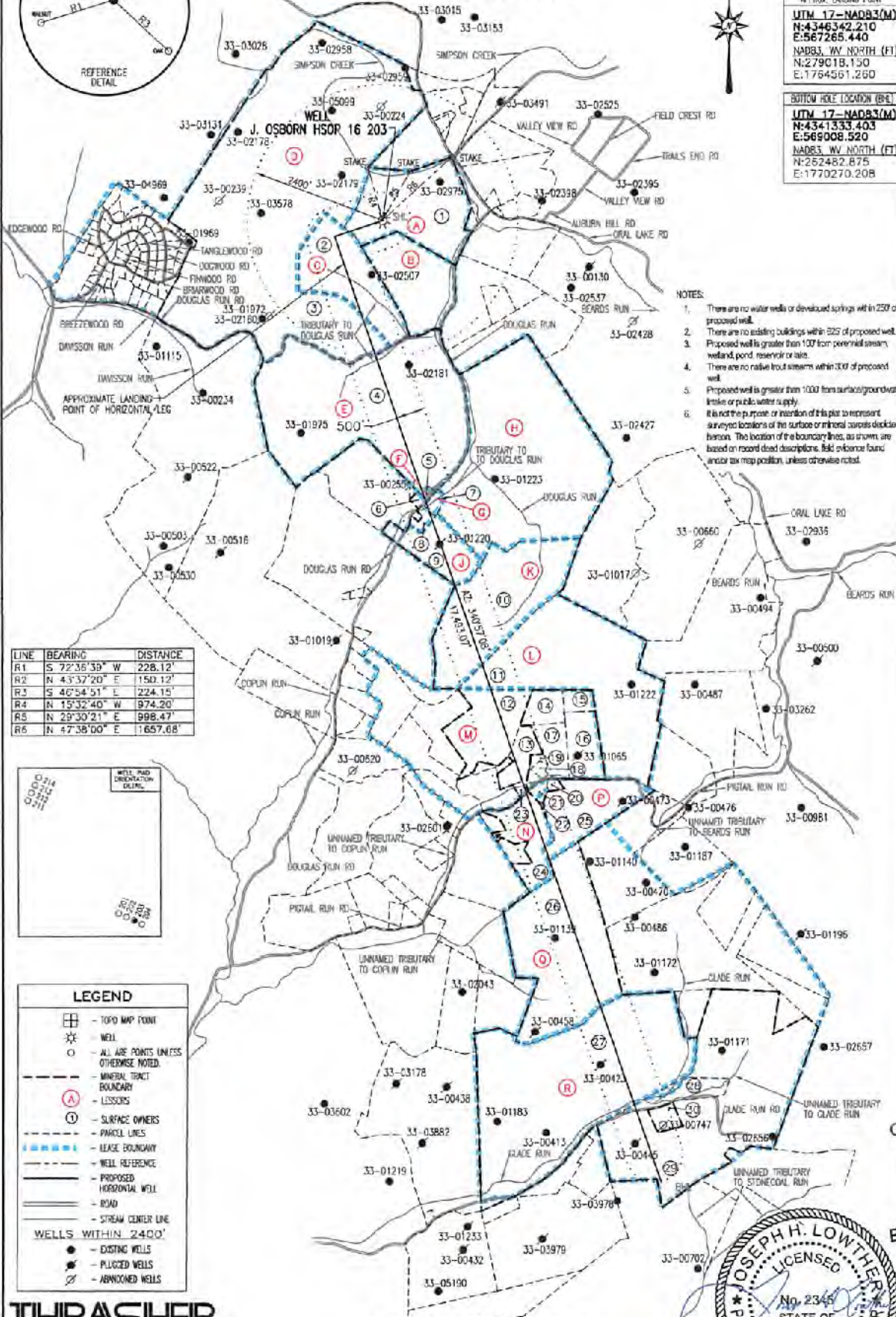
PAGE 2 OF 2



SURFACE HOLE LOCATION (SHE)
UTM 17-NAD83(M)
 N:4346578.590
 E:567469.580
NAD83_WV_NORTH (FT)
 N:279782.659
 E:1765244.012

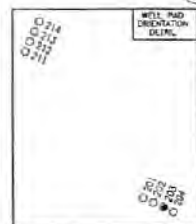
APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4346342.210
 E:567265.440
NAD83_WV_NORTH (FT)
 N:279018.150
 E:1764561.260

BOTTOM HOLE LOCATION (BHE)
UTM 17-NAD83(M)
 N:4341333.403
 E:565008.520
NAD83_WV_NORTH (FT)
 N:262482.875
 E:1770270.208



- NOTES:**
1. There are no water wells or developed springs within 200' of proposed well.
 2. There are no existing buildings within 200' 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 plan to represent survey locations of the surface or mineral interests electric lines. The location of electric lines, as shown, are based on recent deed descriptions, field evidence found on a tax map position, unless otherwise noted.

| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| R1 | S 72°36'39" W | 228.12' |
| R2 | N 4°37'20" E | 150.12' |
| R3 | S 40°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 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
- PULVED WELLS
- ABANDONED WELLS

THRASHER
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SEPTEMBER 13, 2021



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AOR Attachment A1