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 SHL is located on topo map 9,364 feet south of Latitude: 39° 17' 30"

BHL is located on topo map 11,091 feet west of Longitude: 80° 10' 00"
 SHL is located on topo map 2,298 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	DAVID A. & TAMMERA L. FARIS	15-330/24
5	CHARLES E. REED 1/2 INTEREST GERALD W. BURNER ET AL 1/2 INTEREST	15-330/25
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	CHRISTOPHER PATRICK OSBORN	15-350/3.2
10	CHRISTOPHER ENEIX	15-350/15
11	CYNTHIA M. IQUINTO	15-350/14.1
12	JOSPEH ALBERT HONCE	15-350/14.2
13	ANNESE FRANK	15-350/16.3
14	JEFFREY A. CRISLIP	15-350/14
15	MICHAEL DAVID & REBECCA JANE CONLEY	15-350/16
16	MICHAEL HONCE	15-350/12
17	NICHOLAS A. & MEGHAN A. FLESHER	15-350/22
18	PATRICIA L. MOORE	15-350/23
19	*PATRICIA L. MOORE	15-350/23.6
20	CHARLES W. CLEVINGER IRR TRUST	15-370/10
21	CHARLES W. CLEVINGER IRR TRUST	15-370/11
22	CHARLES W. CLEVINGER IRR TRUST	15-370/12
23	SHAWN R. NEWBROUGH	15-370/21
24	JOHN JAMES JONES C/O ANTHONY JONES	15-370/27
25	CHARLES A. & JOYCE G. MATHENY	15-370/28

	LESSOR	DIST-TM/PAR
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B	CHARLES THOMAS DAVIS, ET UX	15-330/4
C	GEORGE T. FARIS, ET AL	15-330/3
D	JOHN B. WEBB, ET AL	15-330/25
E	MICHAEL A. OSBORN ET UX	15-350/4
F	XTO ENERGY INC.	15-350/3
		15-350/3.3
		15-350/3.1
G	REBECCA A. COMPTON; JAMES MICHAEL COMPTON & JENNIFER NORA COMPTON	15-350/18.1
		15-350/18.3
		15-350/18
		15-350/18.9
H	PATRICIA MOORE	15-350/23.2
		*15-350/23.6
		15-350/23
	TRACY H. McDONALD	P/O 15-350/23.1
J	CHARLES W. CLEVINGER IRR TRUST	15-370/10
		15-370/11
		15-370/12
K	N. D. PARKS ET AL	15-370/21
L	JOHN JAMES JONES	P/O 15-370/27
M	JOHN JAMES JONES AUDREY U. DAVIS ET UX.	P/O 15-370/27
		15-370/28.1
		15-370/28
N	GEORGE T. FARRIS, ET AL	15-350/4
		15-350/10
		15-350/11
		15-350/12
		15-350/14



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

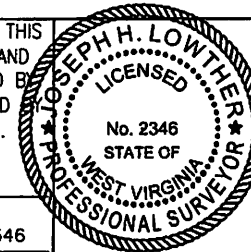
SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4346582.310 E:5667481.23 NAD83_WY NORTH (FT) N:279795.329 E:1765216.814	UTM 17-NAD83(M) N:4345981.580 E:566754.480 NAD83_WY NORTH (FT) N:277797.050 E:1762863.840	UTM 17-NAD83(M) N:4340953.020 E:568577.530 NAD83_WY NORTH (FT) N:261262.570 E:1768572.720

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

FILE #: J OSBORN HSOP 16 201
 DRAWING #: J OSBORN HSOP 16 201
 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 16 201
 API WELL #: 47 33 05949 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: 1,596.97±

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

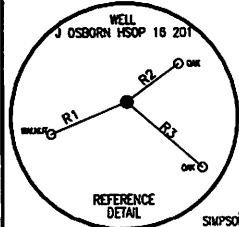
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: (LATERAL) TD: 7,510'± TMD: 26,159'±

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 16 201

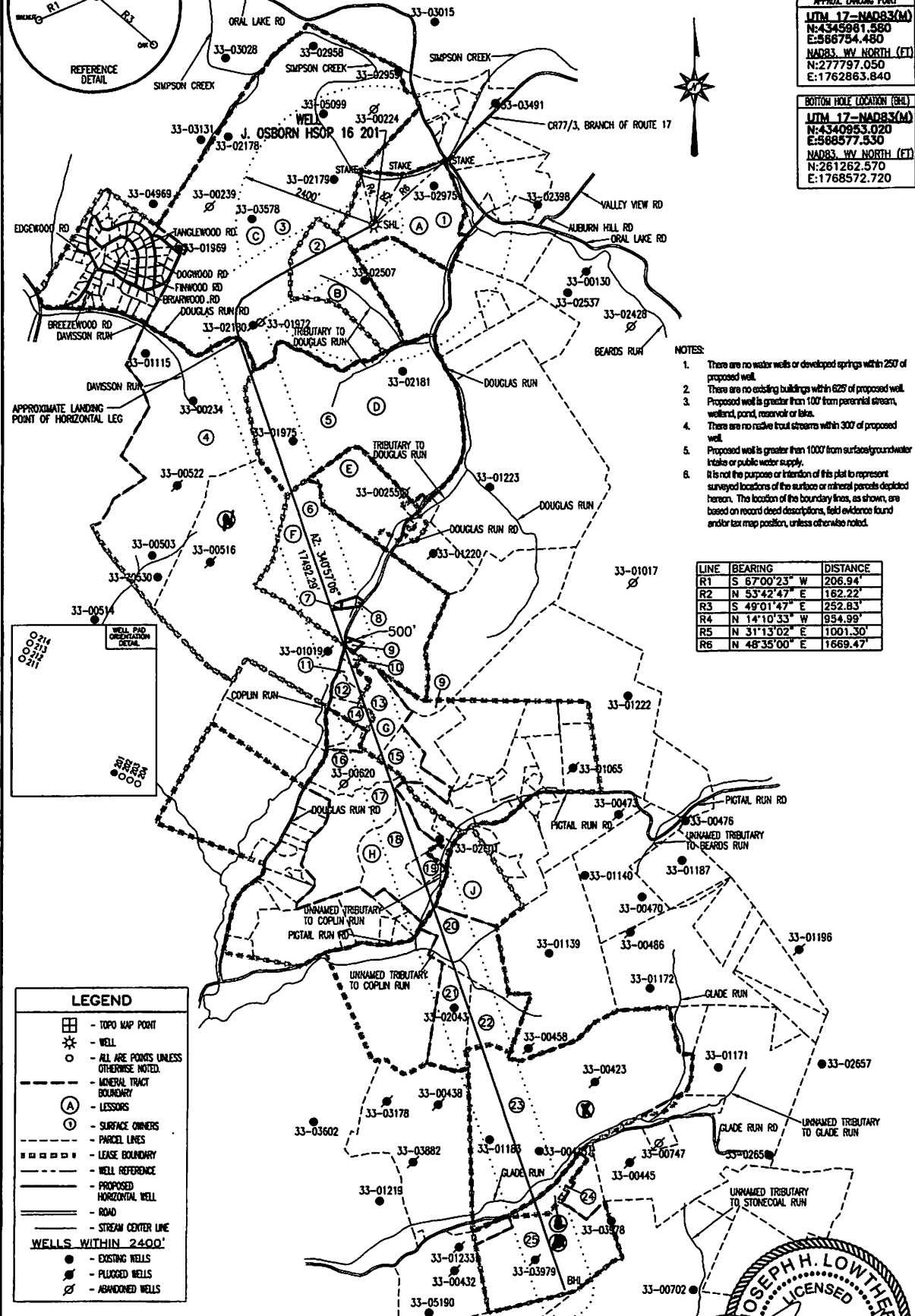
PAGE 2 OF 2



SURFACE HOLE LOCATION (SHL)
 LTM 17-NAD83(M)
 N:434882.310
 E:567461.23
 NAD83_WY NORTH (FT)
 N:279795.329
 E:1765216.814

APPROX. LANDING POINT
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 E:566754.480
 NAD83_WY NORTH (FT)
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 E:1762863.840

BOTTOM HOLE LOCATION (BHL)
 LTM 17-NAD83(M)
 N:4340953.020
 E:568577.530
 NAD83_WY NORTH (FT)
 N:261262.570
 E:1768572.720



- 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 67°00'23" W	206.94'
R2	N 53°42'47" E	162.22'
R3	S 49°01'47" E	252.83'
R4	N 14°10'33" W	954.99'
R5	N 31°13'02" E	1001.30'
R6	N 48°35'00" E	1669.47'

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MENSURAL 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

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SEPTEMBER 24, 2021



10/28/2021

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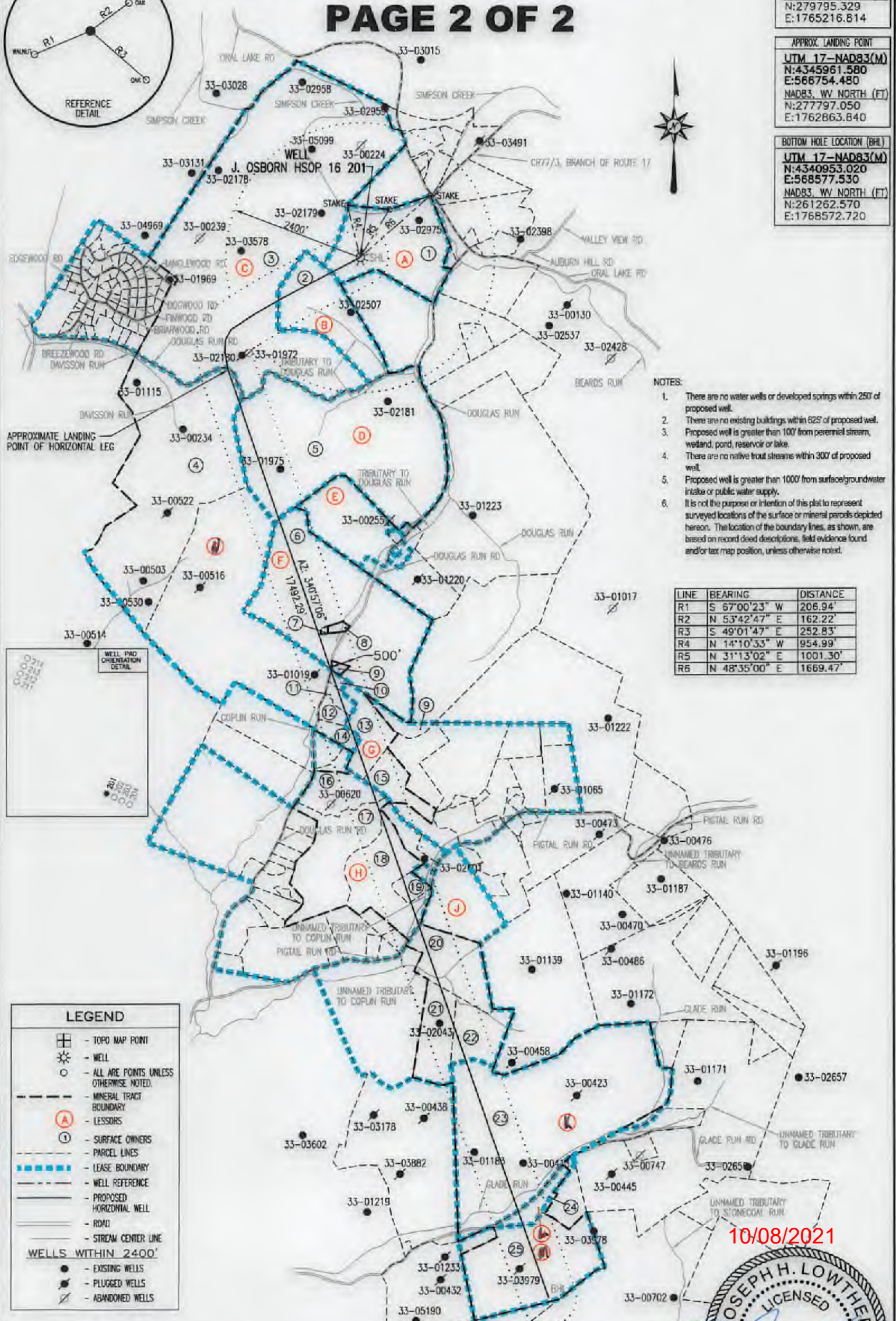
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- ☼ - WELL
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- (A) - LESSORS
- (1) - SURFACE OWNERS
- - - - - PARCEL LINES
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