

KNOB CREEK N LEASE
UTICA UNIT - 385.63 AC±
WELL 12HU
TUG HILL OPERATING

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°50'00"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT) N. 464,863.27 E. 1,629,685.28
NAD'83 GEO. LAT-(N) 39.770047 LONG-(W) 80.705419
NAD'83 UTM (M) N. 4,402,276.64 E. 525,229.52

LANDING POINT

NAD'83 S.P.C.(FT) N. 465,600.0 E. 1,629,596.6

NAD'83 GEO. LAT-(N) 39.772066 LONG-(W) 80.705769

NAD'83 UTM (M) N. 4,402,500.6 E. 525,198.8

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 477,384.4 E. 1,623,144.8

NAD'83 GEO. LAT-(N) 39.804175 LONG-(W) 80.729295

NAD'83 UTM (M) N. 4,406,058.0 E. 523,173.2

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°42'30"

Table with columns: MAP/PARCEL, ADJOINING SURFACE OWNER LIST, ACRES. Lists adjacent landowners and their acreage.

Table with columns: TAG, SURFACE OWNER, PARCEL, ACRES. Lists all parcels within the well pad area.

NOTES ON SURVEY

- 1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL...
2. SEE REFERENCES FOR DWELLINGS LOCATED WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD...
3. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.

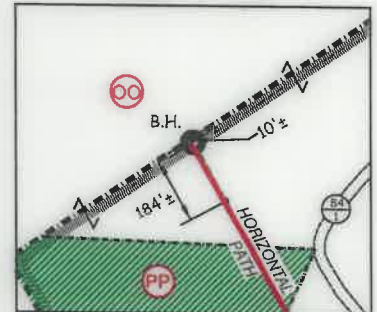
A.D. T.H.

A.D. B.H.

AS DRILLED COORDINATES FOR WELL NO. 12HU

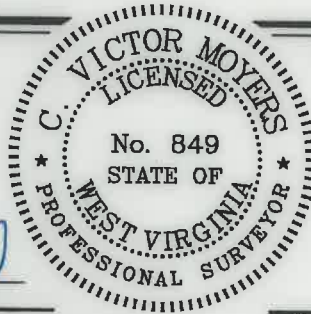
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DETAIL SCALE: 1" = 500'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26331 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvv.com

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 DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. 849 [Signature of C. Victor Moyers]

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 21, 20 21
REVISED
OPERATORS WELL NO. KNOB CREEK N-12HU
API WELL NO. 47 - 051 - 02268
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P12HUAD.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

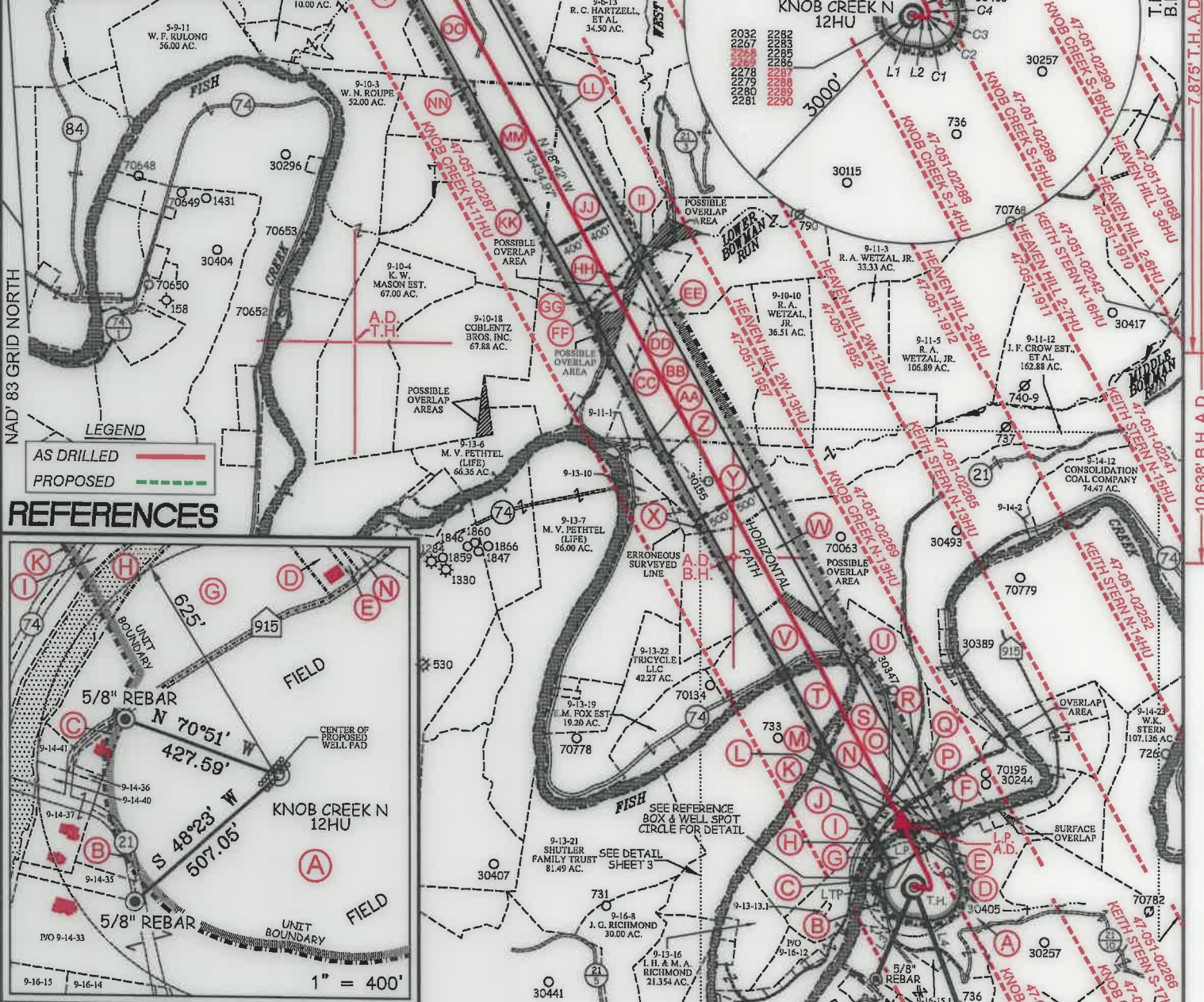
WELL TYPE: OIL GAS X INJECTION WASTE DISPOSAL "GAS" PRODUCTION X STORAGE DEEP X SHALLOW
LOCATION: GROUND = 732.20' ELEVATION PROPOSED = 734.67' WATERSHED FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'
SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±
ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-6A1 ACREAGE 65.824±
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,279' TMD: 24,952'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

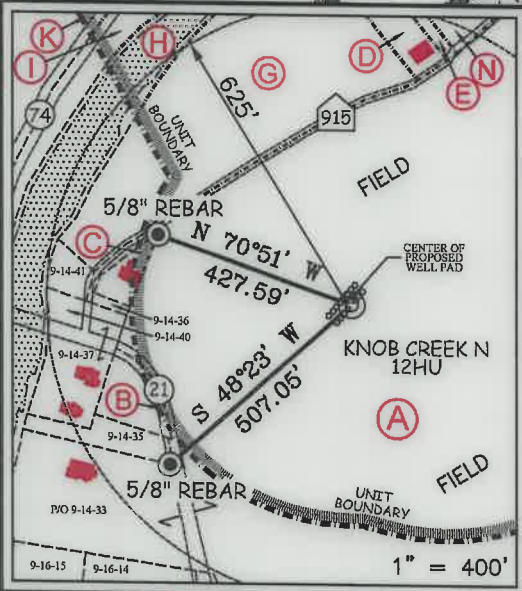
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**KNOB CREEK N LEASE  
UTICA UNIT - 385.63 AC ±  
WELL 12HU  
TUG HILL OPERATING**

LINE	BEARING	DISTANCE
L1	S 89°03' E	86.39'
L2	S 75°28' E	114.57'
L3	S 22°30' W	1320.99'
L4	S 20°18' E	1654.98'



**REFERENCES**



**SLS**  
FROM THE GROUND UP

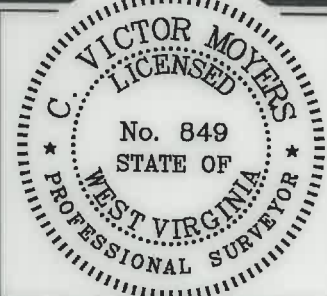
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5534  
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slsvw.com

P.S. 849 *C. Victor Moyers*

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	10.17'	9.95'	N 76°40' E	9.73'
C2	12.77'	22.25'	N 22°37' E	12.59'
C3	34.85'	141.39'	N 02°29' W	34.76'
C4	79.29'	659.09'	N 13°19' W	79.24'
C5	148.79'	2213.68'	N 18°41' W	148.76'
C6	552.29'	3807.35'	N 24°57' W	551.80'

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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

**LEGEND**

- UNIT BOUNDARY
- LEASED TRACTS INSIDE UNIT BOUNDARY
- SURFACE LINE
- PROPOSED UTICA WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- FORCE POOL TRACT
- CREEK
- ROAD
- PROPOSED FIRST TAKE POINT
- PROPOSED LAST TAKE POINT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

10/21/2022

SCALE 1" = 2000' FILE NO. 8789P12HUAD.dwg  
KNOB CREEK N-12HU REV5

DATE MAY 21, 2021

REVISED

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API WELL NO. 47 - 051 - 02268

STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

10/21/2022

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DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

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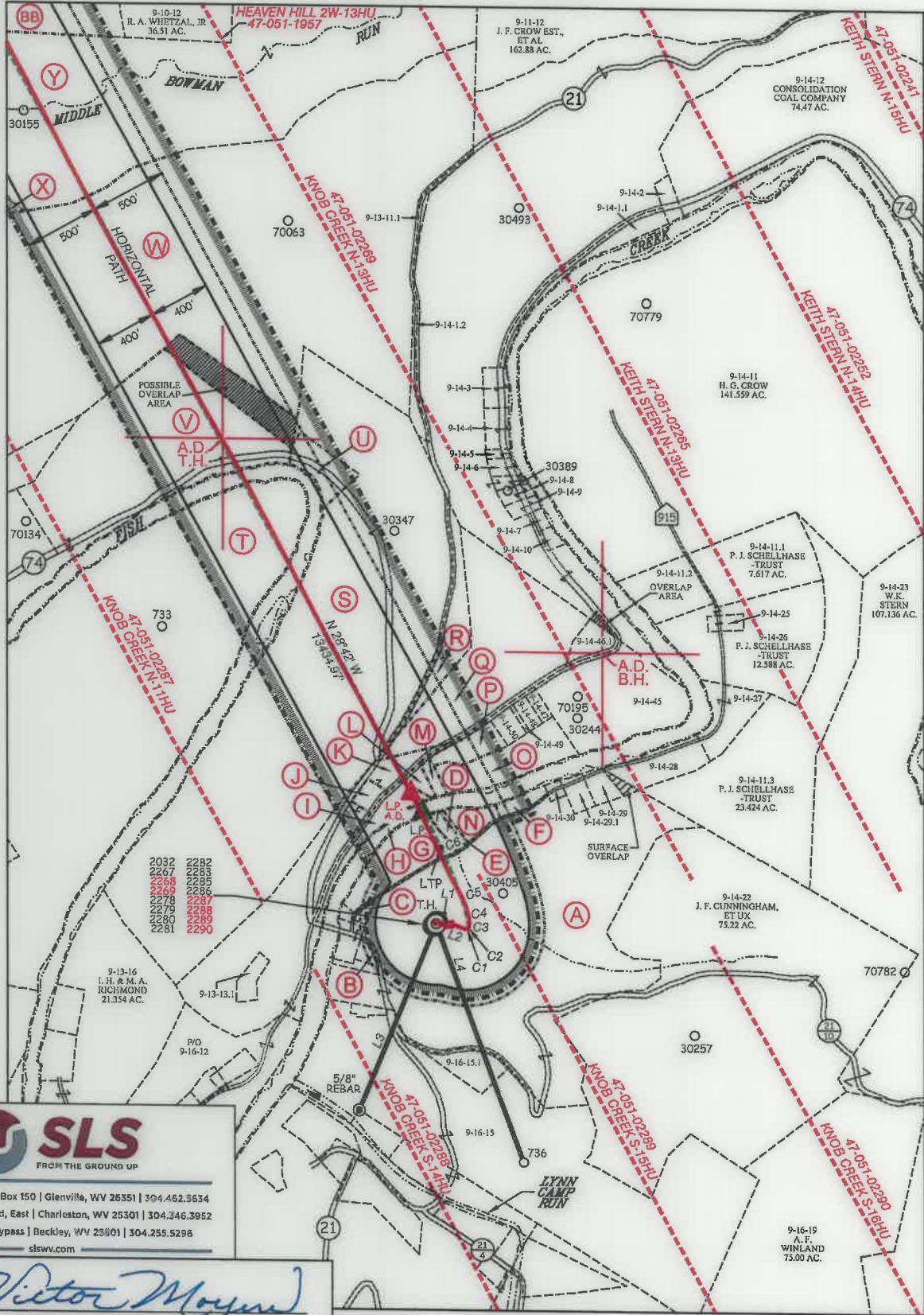
**SHEET 3 DETAIL  
SCALE - 1" = 1,000'**

T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°42'30"

7,875' T.H. A.D.

10,638' B.H. A.D.

NAD'83 GRID NORTH



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NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
1	10*47051.219.1	A	9-14-33	DAVID LEE FRANKLIN	937 385
2	10*47051.243.1	B	9-14-38	MARY A FOX, ET AL	879 332
3	10*47051.219.1	C	9-14-39	DAVID LEE FRANKLIN	937 385
4	10*47051.219.1	D	9-14-32	DAVID LEE FRANKLIN	937 385
5	10*47051.219.1	E	9-14-32.1	DAVID LEE FRANKLIN	937 385
6	10*47051.219.1	F	9-14-31	DAVID LEE FRANKLIN	937 385
7	10*47051.219.1	G	9-14-44	DAVID LEE FRANKLIN	937 385
8	10*23458	H	FISH CREEK - WV	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	1019 373
9	10*19538	I	9-14-42	JOHN C LAGOS AND CYNTHIA M LAGOS, ET AL	936 531
10	10*18732	J	9-14-43	SHERRILL M LEAVERS AND JAMES H LEAVERS, ET AL	938 245
11	10*18732	K	9-13-13	SHERRILL M LEAVERS AND JAMES H LEAVERS, ET AL	938 245
12	10*19565	L	9-14-53	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947 566
13	10*19565	M	9-14-52	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947 566
14	10*15523	N	9-14-54	RICHARD L HARVETH AND SANDRA J HARVETH	729 638
15	10*19565	O	9-14-44.1	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947 566
16	10*19565	P	9-14-51	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, ET AL	947 566
17	10*18298	Q	9-14-46	MAURSEN GREGG, ET AL	929 273
18	10*47051.243.1	R	9-13-14	MARY A FOX, ET AL	879 332
19	10*24858	S	9-13-12	NILA JEAN FROHNAPFEL	1028 119
20	10*17193	T	9-13-20	JOHN P. ICARD, ET AL	716 12
21	10*19942	U	9-13-12.1	ROBERT T ANKROM & BARBARA A ANKROM	949 207
22	10*18351	V	9-13-18	MARK ALLEN LENENBERG, ET AL	931 399
23	10*18265	W	9-13-11	KENNETH NELSON SMERTNECK AND TERESA ANN SMERTNECK	933 103
24	10*28299	X	9-13-8	SHUTLER FAMILY TRUST	1070 425
25	10*47051.243.1	Y	9-11-2	MARY A FOX, ET AL	879 332
26	10*47051.272.0	Z	9-11-2.1	KENNETH P GATEWOOD AND MARY M GATEWOOD	888 600
27	10*16526	AA	9-11-2.2	JUDITH PADLOW AKA JUDI L PADLOW	957 134
28	10*15567	BB	9-10-13	VICKIE MASON, ET AL	680 409
29	10*15600	CC	9-10-14	WILLIAM D MCCONNELL	715 447
30	10*15510	DD	9-10-9	ELAINE PHELPS ET VIR, ET AL	718 326
31	10*15510	EE	9-10-11	ELAINE PHELPS ET VIR, ET AL	718 326
32	10*47051.117.1	FF	9-10-15	JOSEPH MICHAEL BONENE	940 359
33	10*47051.117.1	GG	9-10-7	JOSEPH MICHAEL BONENE	940 359
34	10*47051.117.1	HH	9-10-8	JOSEPH MICHAEL BONENE	940 359
35	10*15525	II	9-6-12	RONALD KEITH MASON ET AL	772 445
36	10*15504	JJ	9-10-6	JAMES MASON ET AL	692 461
37	10*15504	KK	9-10-5	JAMES MASON ET AL	692 461
38	10*15504	LL	9-6-14	JAMES MASON ET AL	692 461
39	10*15510	MM	9-6-15	ELAINE PHELPS ET AL	718 326
40	10*15464	NN	9-6-16	MARY ALICE THOMAS MELLOTT ET AL	906 527
41	10*19116	OO	9-6-4	ROBERT LEE CARNEY AND BONNIE ANNE CARNEY	682 255
42	10*18839	PP	9-6-3	MARGARET DARLENE DUTTON, ET AL	937 607

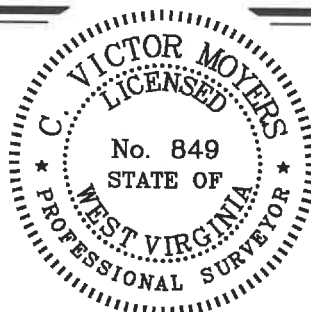
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10/27/2021

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