

**HUDSON S LEASE
UTICA UNIT - 366.42 AC±
WELL 13HU
TUG HILL OPERATING**

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

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

1,700' T.H. A.D.

11,384' B.H. A.D.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.1	CONSOLIDATION COAL CO.	1.00
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-3-1.2	CONSOLIDATION COAL CO.	1.00
9-3-19	CNX LAND CO. LLC	45 SQ. RODS & 3280 SQ. FT
9-5-13	SHELLY ANN JORDAN	5.51
9-7-9	CNX LAND CO. LLC	2.00
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-8-1	CNX LAND CO. LLC	PT. OF 1 AC.
9-8-2	CNX LAND CO. LLC	6000 SQ. FT.
9-8-4.1	CNX LAND RESOURCES, INC.	0.333
9-8-5.1	CNX LAND LLC	1.040

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

NAD'83 S.P.C.(FT)	N. 486,092.49	E. 1,639,154.94
NAD'83 GEO.	LAT-(N) 39.828667	LONG-(W) 80.672718
NAD'83 UTM (M)	N. 4,408,792.45	E. 528,006.42
<u>LANDING POINT</u>		
NAD'83 S.P.C.(FT)	N. 486,294.8	E. 1,639,434.0
NAD'83 GEO.	LAT-(N) 39.829232	LONG-(W) 80.671734
NAD'83 UTM (M)	N. 4,408,855.5	E. 528,090.4
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 476,330.2	E. 1,644,964.9
NAD'83 GEO.	LAT-(N) 39.802075	LONG-(W) 80.651587
NAD'83 UTM (M)	N. 4,405,847.9	E. 529,826.2

**AS DRILLED COORDINATES
FOR WELL NO. 13HU**

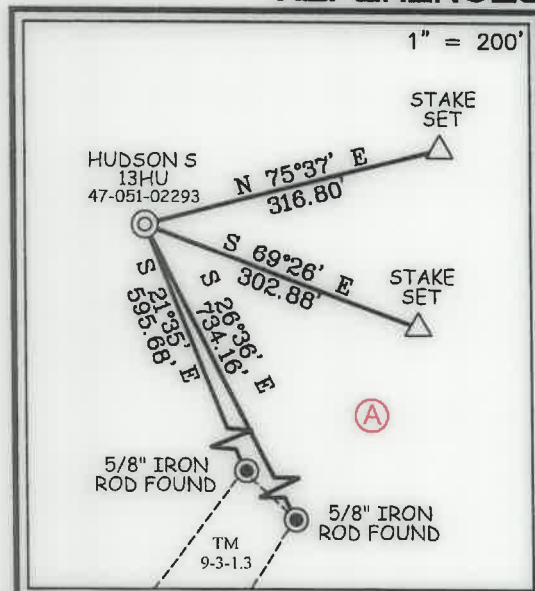
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 486,092.49	E. 1,639,154.94
NAD'83 GEO.	LAT-(N) 39.828667	LONG-(W) 80.672718
NAD'83 UTM (M)	N. 4,408,792.45	E. 528,006.42
<u>LANDING POINT</u>		
NAD'83 S.P.C.(FT)	N. 486,131.0	E. 1,639,515.6
NAD'83 GEO.	LAT-(N) 39.828786	LONG-(W) 80.671436
NAD'83 UTM (M)	N. 4,408,806.0	E. 528,116.1
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 476,332.7	E. 1,644,986.4
NAD'83 GEO.	LAT-(N) 39.802082	LONG-(W) 80.651511
NAD'83 UTM (M)	N. 4,405,848.8	E. 529,832.7

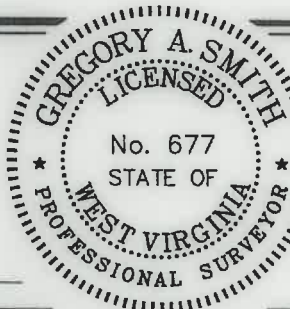
NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF HUDSON S-13HU (47-051-02293) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-11HU (47-051-02296), HUDSON S-12HU (47-051-02292), HUDSON S-14HU (47-021-02327), HUDSON S-15HU (47-051-02328), HUDSON S-16HU (47-051-02329), FITZGERALD S-17HU (47-051-02324), FITZGERALD S-18HU (47-051-02325), FITZGERALD S-19HU (47-051-02326).
- WV DOT/DOH OWNERSHIP WITHIN UNIT SET FORTH IN WW-6A1.
- PLAT UPDATED TO SHOW AS DRILLED PATH.
- AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.

REFERENCES



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5952
254 East Beckley Bypass | Beckley, WV 26801 | 304.285.5296
slswv.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. Gregory A. Smith
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE SEPTEMBER 30, 20 22
REVISED _____
OPERATORS WELL NO. HUDSON S-13HU
API WELL NO. **47 - 051 - 02293**
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P13HUAD.dwg
HUDSON S-13HU REV8
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 INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,370.20' ELEVATION PROPOSED = 1,344.81' WATERSHED GRAVE CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE 106.935±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE 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: 11,948' / TMD: 23,598'

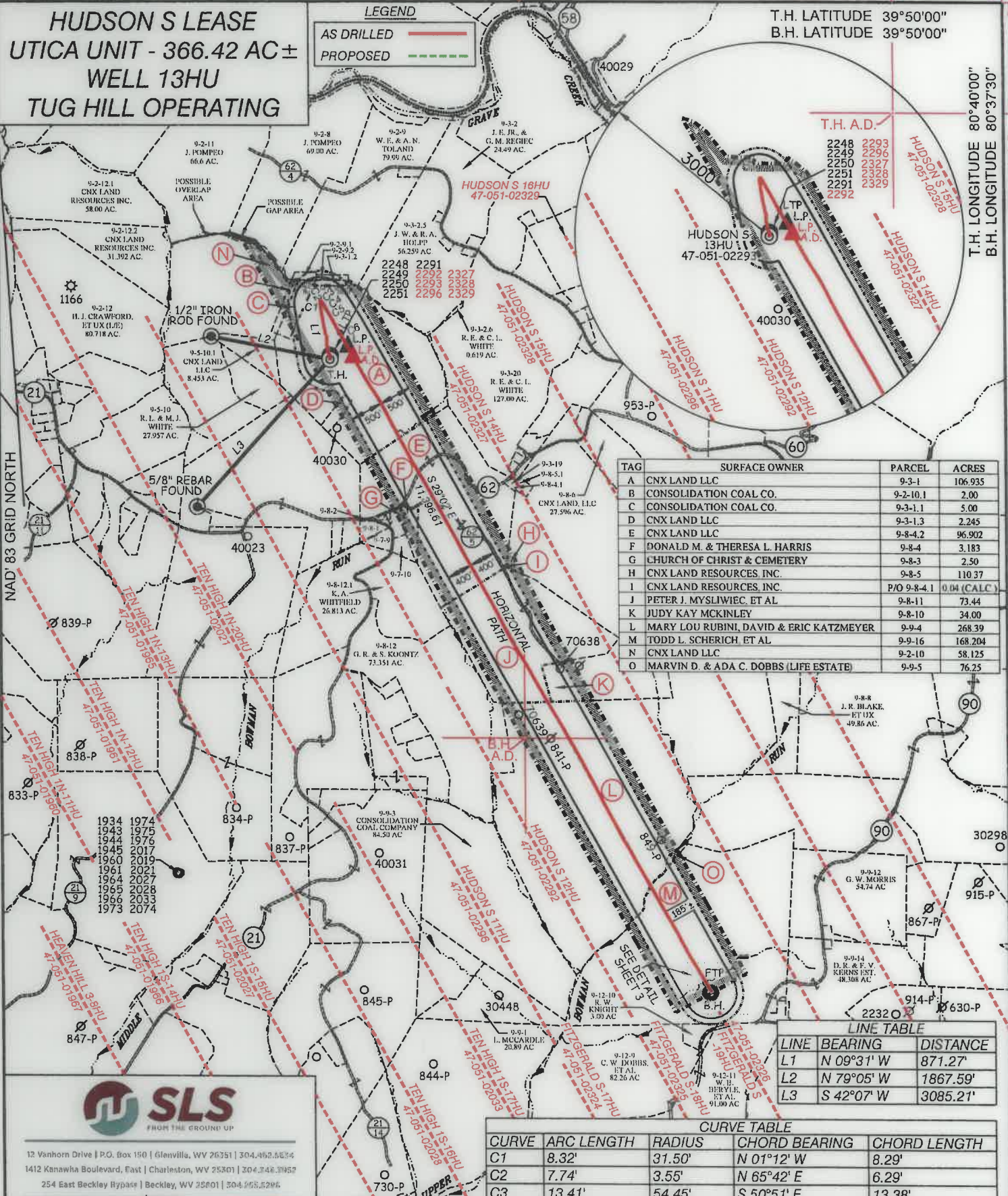
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME
PERMIT

**HUDSON S LEASE
UTICA UNIT - 366.42 AC ±
WELL 13HU
TUG HILL OPERATING**

LEGEND

AS DRILLED ———
PROPOSED - - - - -



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-2-10.1	2.00
C	CONSOLIDATION COAL CO.	9-3-1.1	5.00
D	CNX LAND LLC	9-3-1.3	2.245
E	CNX LAND LLC	9-8-4.2	96.902
F	DONALD M. & THERESA L. HARRIS	9-8-4	3.183
G	CHURCH OF CHRIST & CEMETERY	9-8-3	2.50
H	CNX LAND RESOURCES INC.	9-8-5	110.37
I	CNX LAND RESOURCES INC.	P/O 9-8-4.1	0.04 (CALC)
J	PETER J. MYSLIWIEC, ET AL	9-8-11	73.44
K	JUDY KAY MCKINLEY	9-8-10	34.00
L	MARY LOU RUBINI, DAVID & ERIC KATZMEYER	9-9-4	268.39
M	TODD L. SCHERICH ET AL	9-9-16	168.204
N	CNX LAND LLC	9-2-10	58.125
O	MARVIN D. & ADA C. DOBBS (LIFE ESTATE)	9-9-5	76.25

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 09°31' W	871.27'
L2	N 79°05' W	1867.59'
L3	S 42°07' W	3085.21'

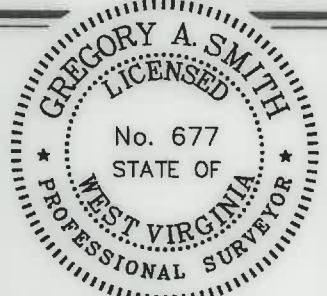
CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	8.32'	31.50'	N 01°12' W	8.29'
C2	7.74'	3.55'	N 65°42' E	6.29'
C3	13.41'	54.45'	S 50°51' E	13.38'
C4	56.36'	462.35'	S 38°50' E	56.33'
C5	299.37'	4275.49'	S 32°46' E	299.31'
C6	420.06'	11921.20'	S 29°59' E	420.03'



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254 East Beckley Highway | Beckley, WV 25801 | 304.265.5296
slsvv.com

P.S. 677 *Gregory A. Smith*



(+) 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
- 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)

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SCALE 1" = 2000' FILE NO. 8911P13HUAD.dwg
 HUDSON S-13HU REV8
 DATE SEPTEMBER 30, 2022
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 OPERATORS WELL NO. HUDSON S-13HU
 API WELL NO. 47 — 051 — 02293
 NO. STATE COUNTY PERMIT

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

10/14/2022

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107
 DESIGNATED AGENT DARREN BROWN - CT CORPORATION ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

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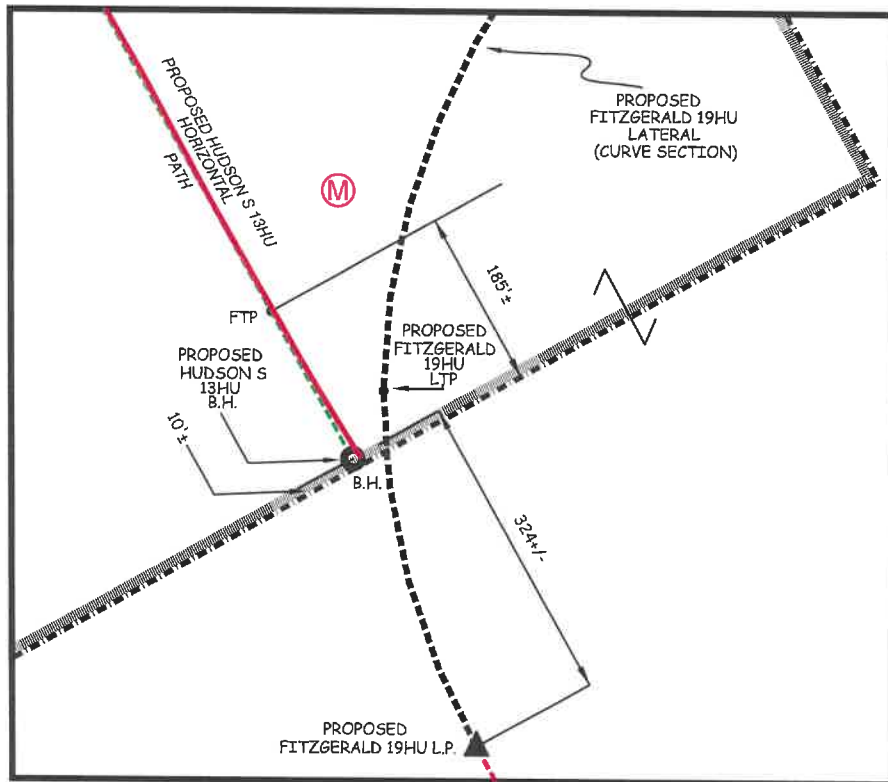
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NO.	Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*26041	9-3-1	A	FREDDIE C WHITE AND VIOLET L WHITE, ET AL	728	527
2	10*26711	9-2-10.1	B	CNX GAS COMPANY LLC	1074	593
3	10*26044	9-3-1.1	C	JOYCE A WALLACE, ET AL	863	296
4	10*26018	9-3-1.3	D	NANCY L WEST, ET AL	737	248
5	10*47051.109.0	9-8-4.2	E	DONALD M AND THERESA L HARRIS	859	440
6	10*47051.109.0	9-8-4	F	DONALD M AND THERESA L HARRIS	859	440
7	10*26113	9-8-3	G	ELDWIN OTIS RINE AND MARY L RINE, ET AL	880	434
8	10*23739	9-8-5	H	APPALACHIAN BASIN MINERALS LP, ET AL	1011	538
9	10*22760	9-8-4.1	I	DONALD M AND THERESA L HARRIS, ET AL	968	294
10	10*22745	9-8-11	J	BONNIE J JENKINS, ET AL	968	288
11	10*21246	9-8-10	K	THE ESTATE OF THERESA M ROGERSON CHARLES J ROGERSON EXECUTOR, ET AL	952	422
12	10*31001	9-9-4	L	ERIC KATZMEYER, ET AL	791	226
13	10*19987	9-9-16	M	LESLEY D BALLA, ET AL	955	103
14	10*26001	9-2-10	N	FREDDIE C WHITE AND VIOLET L WHITE	655	555
15	10*28244	9-9-5	O	MICHAEL D DOBBS AND STEPHANIE J DOBBS, ET AL	1068	569

DETAIL
SCALE: 1" = 200'



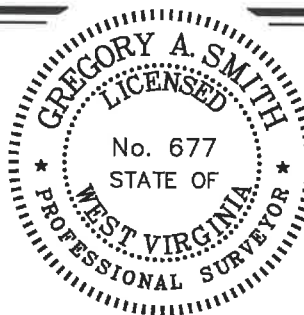
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DATE SEPTEMBER 30, 20 22

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