

**HUNTER PETHTEL LEASE
UTICA UNIT - 427.38 AC±
VAN WINKLE S 21HU WELL
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

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

NAD'83 S.P.C.(FT) N. 469,129.47 E. 1,623,685.75
NAD'83 GEO. LAT-(N) 39.781535 LONG-(W) 80.726968
NAD'83 UTM (M) N. 4,403,545.92 E. 523,380.01

LANDING POINT

NAD'83 S.P.C.(FT) N. 468,240.8 E. 1,622,506.1
NAD'83 GEO. LAT-(N) 39.779051 LONG-(W) 80.731122
NAD'83 UTM (M) N. 4,403,269.1 E. 523,025.2

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 455,522.9 E. 1,629,515.8
NAD'83 GEO. LAT-(N) 39.744400 LONG-(W) 80.705576
NAD'83 UTM (M) N. 4,399,430.2 E. 525,225.4

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

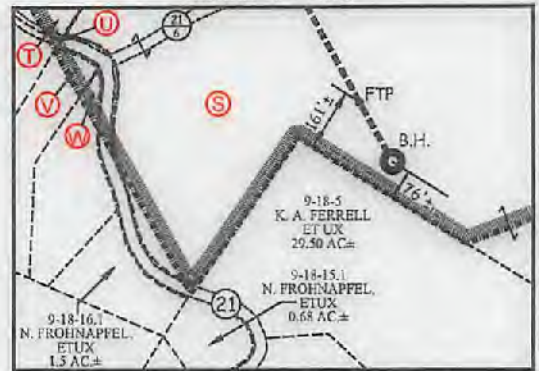
3,691' T.H.

B.H.

T.H.

TAG	SURFACE OWNER	PARCEL	ACRES
A	XCL MIDSTREAM OPERATING, LLC	9-10-19.1	10.00
B	XCL MIDSTREAM OPERATING, LLC	9-13-5	190.12
C	MARY VIRGINIA PETHTEL (LIFE)	9-13-6	66.36
D	ROBERT M. & NANCY R. MCCARDLE	9-13-24	50.64
B	MARY VIRGINIA PETHTEL (LIFE)	9-13-7	96.00
F	ROBERT M. & NANCY R. MCCARDLE	9-13-25	48.00
G	SHUTLER FAMILY TRUST	9-13-21	81.49
H	JAMES G. RICHMOND	9-16-8	30.00
I	ROBERT M. & NANCY R. MCCARDLE	9-16-5	133.00
J	JAMES G. RICHMOND	9-16-9	22.71
K	ROBERT M. & NANCY R. MCCARDLE	9-16-6	31.00
L	JAMES G. RICHMOND	9-16-11	67.8822
M	WILLIAM B. KLUG, ET UX	9-16-7	26.105
N	WILLIAM B. KLUG, ET UX	9-18-5	122.437
O	PAUL R. BLAKE	9-16-13	97.9962
P	WILLIAM B. KLUG, ET UX	9-16-4	73.39
Q	LOUIS FOX	9-18-5.2	0.933
R	LOUIS FOX	9-18-6	141.75
S	ROBERT F. VILLERS	9-18-16	62.893
T	JAMES D. FROHNAPFEL, ET UX	9-18-18	154.03
U	JOHN F. WAYMAN	9-18-18.1	1.1
V	JOHN F. WAYMAN	9-18-16.2	2.17
W	BERNARD KLUG, ET UX ESTS.	9-18-16.3	1.818
X	ROBERT F. & APRIL L. VILLERS	9-18-16.4	1.509

DETAIL 2
SCALE: 1" = 500'

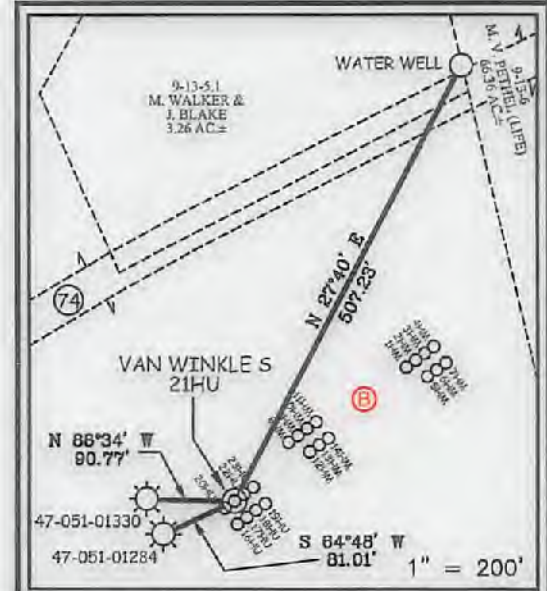


DETAIL 1
SCALE: 1" = 400'



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 IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.
- PROPOSED LATERAL OR TOP HOLE OF VAN WINKLE S-21HU IS WITHIN 3000' OF TOP HOLES OR LATERALS OF: PROPOSED VAN WINKLE N-16HU, PROPOSED VAN WINKLE N-17HU, PROPOSED VAN WINKLE N-18HU, PROPOSED VAN WINKLE N-19HU, PROPOSED VAN WINKLE S-20HU, PROPOSED VAN WINKLE S-22HU, PROPOSED VAN WINKLE S-23HU, KNOB CREEK N-11HU (47-051-02287).

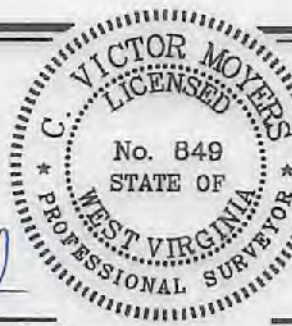


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
234 East Beckley Bypass | Beckley, WV 25801 | 304.255.9296
slsuw.com

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

C. Victor Moyers



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

DATE JANUARY 14, 20 21

REVISED MARCH 3, 2021

OPERATORS WELL NO. VAN WINKLE S 21HU

API WELL NO. 47 - 051 - 02354
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P21HUR.dwg
VAN WINKLE S 21HU-REV3
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: 756.10' ELEVATION PROPOSED: 753.50' WATERSHED FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER XCL MIDSTREAM OPERATING, LLC ACREAGE 190.12 ±
ROYALTY OWNER DENNIS HUNTER, ET AL - SEE WW-6A1 ACREAGE 190.12

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: 11,220' / TMD: 26,088'

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

COUNTY NAME PERMIT

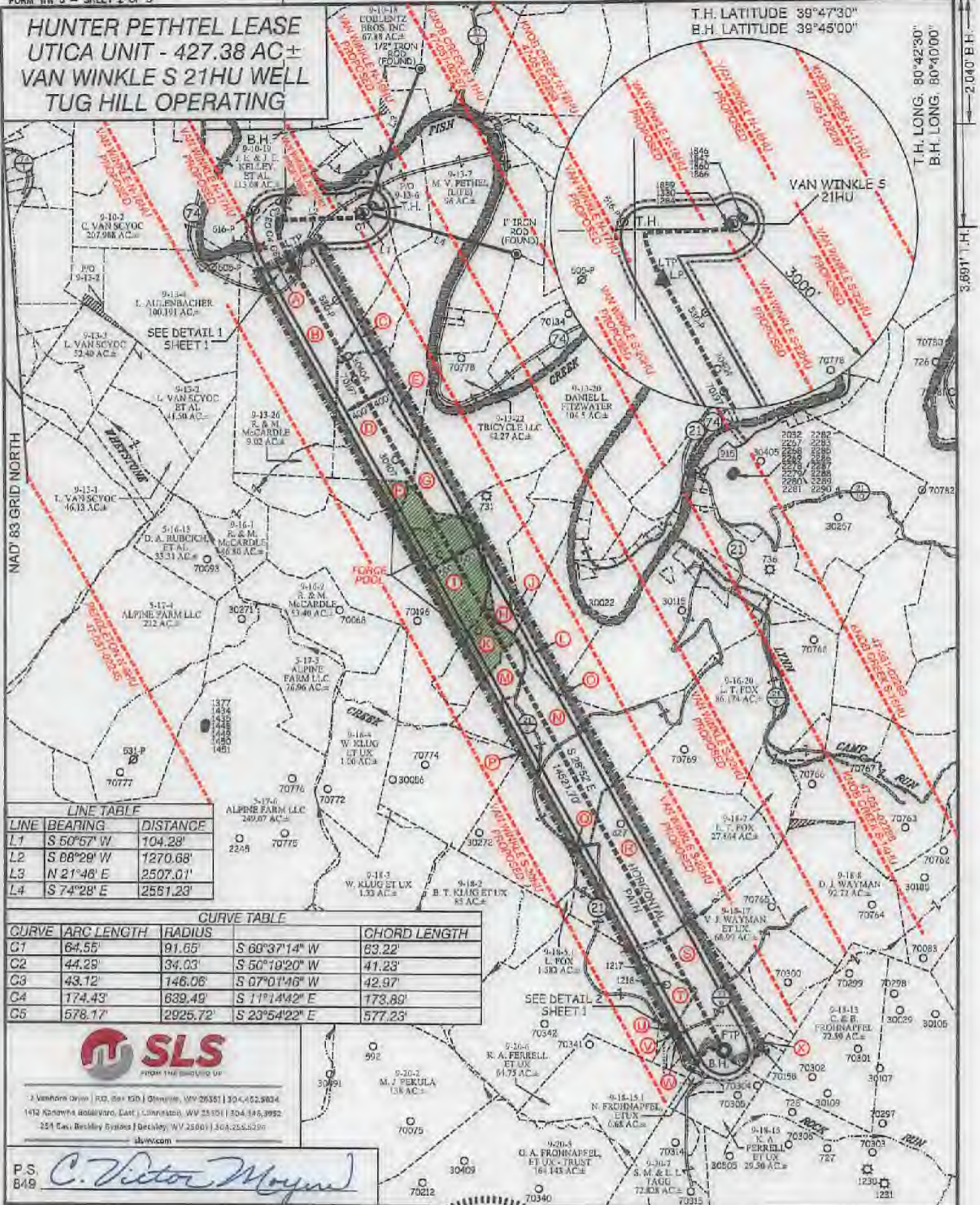
07/16/2021

10,941' B.H. 5,237' T.H.

**HUNTER PETHTEL LEASE
UTICA UNIT - 427.38 AC±
VAN WINKLE S 21HU WELL
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

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



LINE TABLE

LINE	BEARING	DISTANCE
L1	S 60°57' W	104.28'
L2	S 88°29' W	1270.68'
L3	N 21°48' E	2507.01'
L4	S 74°28' E	2551.23'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD LENGTH
C1	64.55'	91.65'	S 60°37'14" W 63.22'
C2	44.29'	34.03'	S 50°19'20" W 41.23'
C3	43.12'	146.06'	S 07°01'46" W 42.97'
C4	174.43'	639.49'	S 11°14'42" E 173.89'
C5	578.17'	2925.72'	S 23°54'22" E 577.23'



Vanhook Drive | P.O. Box 150 | Otterville, WV 25351 | 304.462.8834
1412 Kanawha Boulevard, East | Charleston, WV 25310 | 304.345.3952
251 East Beckley Street | Beckley, WV 25801 | 304.255.5299
slsvw.com

P.S. 849 *C. Victor Moyers*

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

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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
- FORGE 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)

SCALE 1" = 2000' FILE NO. 8952P21HUR.dwg
VAN WINKLE S 21HU-REV3
DATE JANUARY 14, 20 21
REVISED MARCH 3, 2021
OPERATORS WELL NO. VAN WINKLE S 21HU
API WELL 47 - 051 - 02354
NO STATE COUNTY PERMIT

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

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

07/16/2021

COUNTY NAME PERMIT

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slnw.com

NO.	Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Deed Book/Page
1	10*31352	9-10-19.1	A	DENNIS W HUNTER ET UX	690 60
2	10*31312	9-13-5	B	DENNIS W & KATHY A HUNTER	668 155
3	10*31303	9-13-6	C	MARY V & FRANK E PETHTEL, ET AL	668 525
4	10*21131	9-13-24	D	ROBERT M MCCARDLE & NANCY R MCCARDLE, ET AL	951 621
5	10*31303	9-13-7	E	MARY V & FRANK E PETHTEL, ET AL	668 525
6	10*28268	9-13-25	F	JOSEPH & ELIZABETH SHUTLER	63 203
7	10*23197	9-13-21	G	J W KELLEY AND R A KELLEY	63 156
8	10*23197	9-16-8	H	J W KELLEY AND R A KELLEY	63 156
9	10*28268	9-16-5	I	JOSEPH & ELIZABETH SHUTLER	63 203
10	10*16481	9-16-9	J	JAMES G RICHMOND AND CINDY L RICHMOND	829 71
11	10*28268	9-16-6	K	JOSEPH & ELIZABETH SHUTLER	63 203
12	10*16481	9-16-11	L	JAMES G RICHMOND AND CINDY L RICHMOND	829 71
13	10*22789	9-16-7	M	DONNA K FAHEY, ET AL	962 87
14	10*22789	9-18-5	N	DONNA K FAHEY, ET AL	962 87
15	10*47051.135.D	9-16-13	O	PAUL R BLAKE	878 280
16	10*18038	9-16-4	P	JEANETTE A SHUTLER DAVIS AND ROY J DAVIS, ET AL	927 84
17	10*28268	9-18-5.2	Q	JOSEPH & ELIZABETH SHUTLER	63 203
18	10*28268	9-18-5	R	JOSEPH & ELIZABETH SHUTLER	63 203
19	10*28265	9-18-16	S	ROBERT F VILLERS AND APRIL L VILLERS	1073 381
20	10*47051.047.1	9-18-18	T	JAMES E BLATT, ET AL	869 587
21	10*18326	9-18-18.1	U	JOHN F WAYMAN AND DOROTHY A WAYMAN	938 13
22	10*19352	9-18-16.2	V	JOHN F WAYMAN AND DOROTHY A WAYMAN	938 11
23	10*28265	9-18-16.3	W	ROBERT F VILLERS AND APRIL L VILLERS	Pending
24	10*28265	9-18-16.4	X	ROBERT F VILLERS AND APRIL L VILLERS	1073 381

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ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
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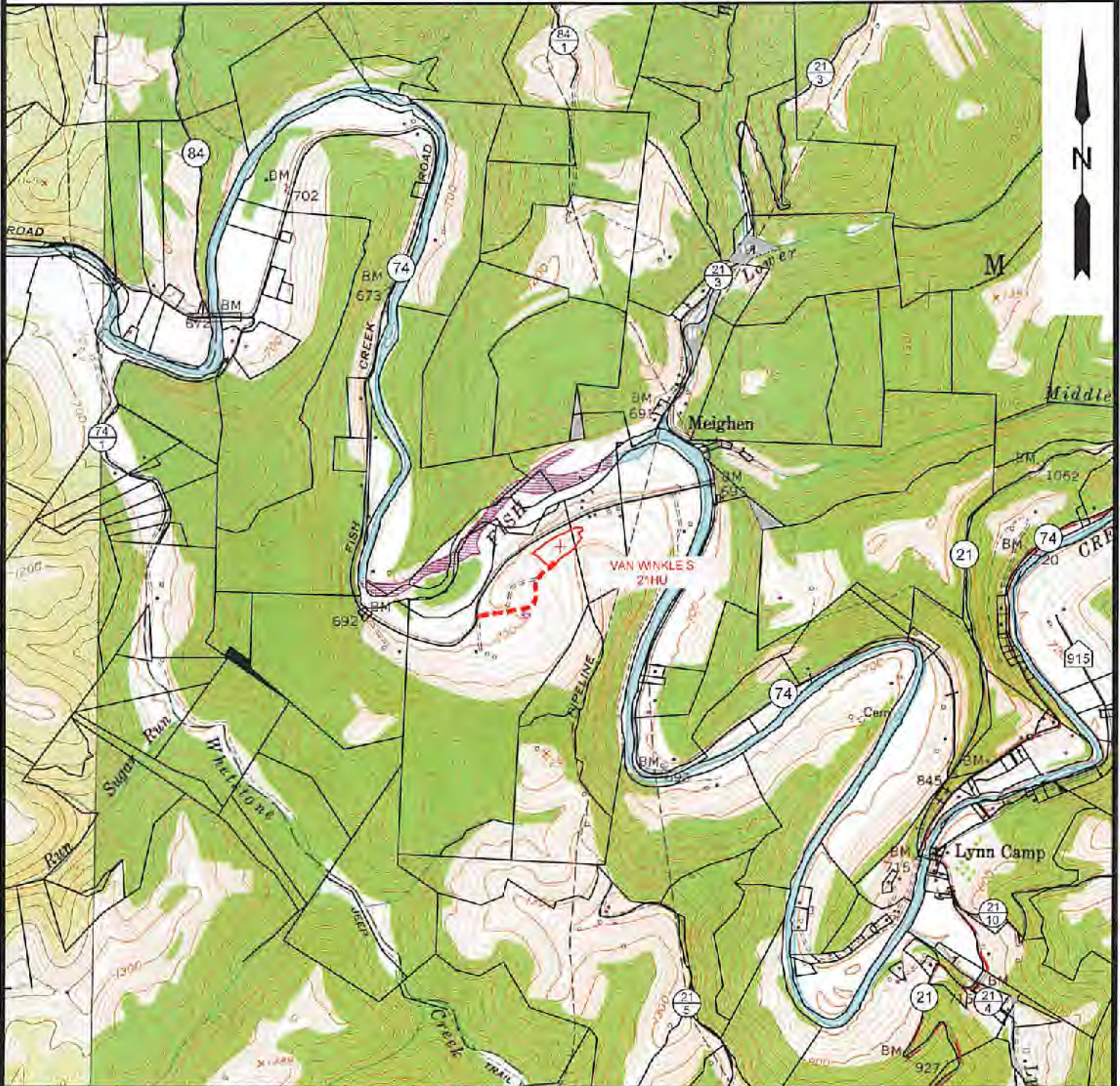
DESIGNATED AGENT DIANNA STAMPER
ADDRESS CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME

PERMIT


07/16/2021

PROPOSED VAN WINKLE S - 21HU



NOTE: CLOSEST WATER PURVEYOR
GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT
PROCTOR, WV

LAT: 39.7137712
LON: -80.8258327
LOCATED: S 49°13'48" W AT 37,316.19' FROM THE CENTER OF HUNTER PETHEL N WELL PAD LOCATION.

 12 Vanhorn Drive P.O. Box 150 Glenville, WV 26351 304.462.6634 1412 Kanawha Boulevard, East Charleston, WV 25301 304.546.3952 25 East Beckley Bypass Beckley, WV 25801 304.255.5296 slsw.com	TOPO SECTION:		OPERATOR:	
	GLEN EASTON 7.5'		PREPARED FOR:	
	COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
	MARSHALL	MEADE	380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE	
K.G.M.	8952	12/24/2020	1" = 2000'	



**TUG HILL
OPERATING**

07/16/2021