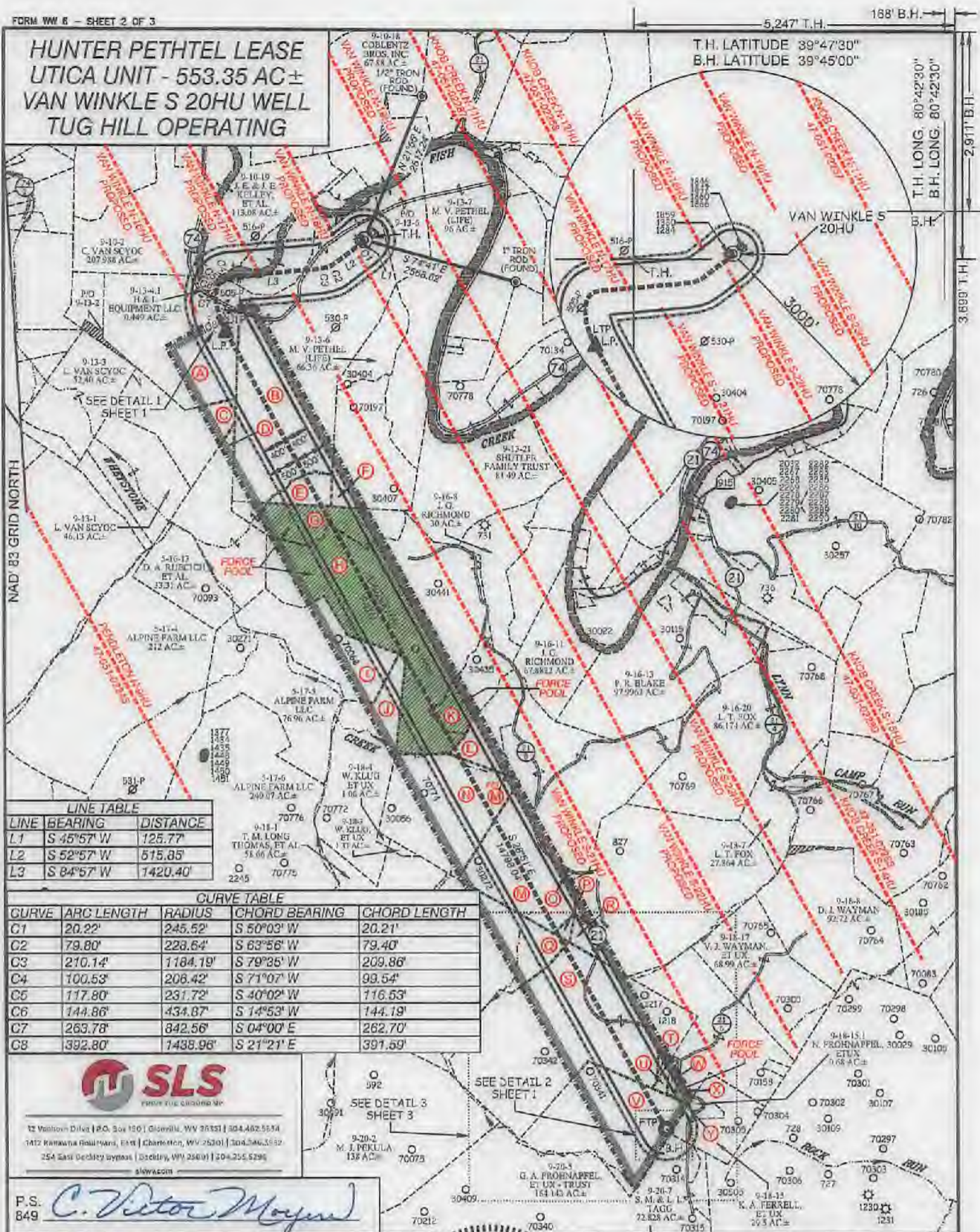


**HUNTER PETHTEL LEASE
UTICA UNIT - 553.35 AC±
VAN WINKLE S 20HU WELL
TUG HILL OPERATING**



LINE TABLE

LINE	BEARING	DISTANCE
L1	S 45°57' W	125.77'
L2	S 52°57' W	515.85'
L3	S 84°57' W	1420.40'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	20.22'	245.52'	S 50°03' W	20.21'
C2	79.80'	228.64'	S 63°56' W	79.40'
C3	210.14'	1184.19'	S 79°35' W	209.86'
C4	100.53'	208.42'	S 71°07' W	99.54'
C5	117.80'	231.72'	S 40°02' W	116.53'
C6	144.86'	434.87'	S 14°53' W	144.19'
C7	263.78'	842.56'	S 04°00' E	262.70'
C8	392.80'	1438.98'	S 21°21' E	391.59'



12 Vanhook Drive | P.O. Box 1501 | Glenview, WV 26031 | 304.462.5534
1412 Kanawha Mall | Park | Charleston, WV 25301 | 304.546.3592
254 East Denkey Street | Beckley, WV 25801 | 304.255.5296
sls.com

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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)

SCALE 1" = 2000' FILE NO. 8852P20HUR.dwg
VAN WINKLE S 20HU-REV3
DATE JANUARY 14 20 21
REVISED MARCH 2, 2021
OPERATORS WELL NO. VAN WINKLE S 20HU
API WELL NO. 47 - 051 - 02353
NO. STATE COUNTY PERMIT

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



DIANNA STAMPER
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

COUNTY NAME PERMIT

07/16/2021

**HUNTER PETHTEL LEASE
UTICA UNIT - 553.35 AC ±
VAN WINKLE S 20HU WELL
TUG HILL OPERATING**

TAG	SURFACE OWNER	PARCEL	ACRES
A	LOUIS AULENBACHER	9-13-4	100.191
B	XCL MIDSTREAM OPERATING, LLC	9-13-5	190.12
C	SYLVIA L. VAN SCYOC, ET AL	9-13-2	41.5
D	ROBERT M. & NANCY MCCARDLE	9-16-1	46.80
E	ROBERT M. & NANCY MCCARDLE	9-13-26	9.02
F	ROBERT M. & NANCY MCCARDLE	9-13-24	50.64
G	ROBERT M. & NANCY MCCARDLE	9-13-25	48.00
H	ROBERT M. & NANCY MCCARDLE	9-16-5	133.00
I	ROBERT M. & NANCY MCCARDLE	9-16-2	53.40
J	WILLIAM B. KLUG, ET UX	9-16-3	71.00
K	ROBERT M. & NANCY MCCARDLE	9-16-6	31.00
L	WILLIAM B. KLUG, ET UX	9-16-7	26.105
M	WILLIAM B. KLUG, ET UX	9-18-4	123.437
N	WILLIAM B. KLUG, ET UX	9-16-4	73.39
O	LOUIS FOX	9-18-5.2	0.933
P	LOUIS FOX	9-18-5.1	1.583
Q	BRIAN T. KLUG	9-18-2	85.00
R	LOUIS FOX	9-18-6	141.75
S	JAMES D. FROHNAPFEL, ET UX	9-18-18	154.03
T	JOHN F. WAYMAN	9-18-18.1	1.1
U	JOHN F. WAYMAN	9-18-16.2	2.17
V	KEITH A. FERRELL, ET UX	9-20-6	64.74
W	BERNARD KLUG, ET UX ESTS.	9-18-16.3	1.818
X	ROBERT F. VILLERS	9-18-16	62.893
Y	NICHOLAS C. FROHNAPFEL, ET UX	9-18-16.1	1.50

5,247' T.H. 168' B.H.

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. 469,122.31	E. 1,623,876.11
NAD'83 GEO.	LAT-(N) 39.791515	LONG-(W) 80.727002
NAD'83 UTM (M)	N. 4,403,543.59	E. 523,877.11

LANDING POINT

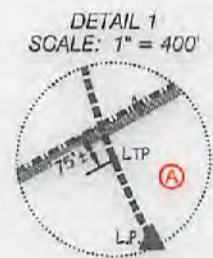
NAD'83 S.P.C. (FT)	N. 467,625.5	E. 1,621,420.6
NAD'83 GEO.	LAT-(N) 39.777321	LONG-(W) 80.734954
NAD'83 UTM (M)	N. 4,403,076.1	E. 522,697.6

BOTTOM HOLE

NAD'83 S.P.C. (FT)	N. 454,664.0	E. 1,628,560.7
NAD'83 GEO.	LAT-(N) 39.742007	LONG-(W) 80.708931
NAD'83 UTM (M)	N. 4,399,163.7	E. 524,938.8

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

3,609' T.H. 2,611' B.H.

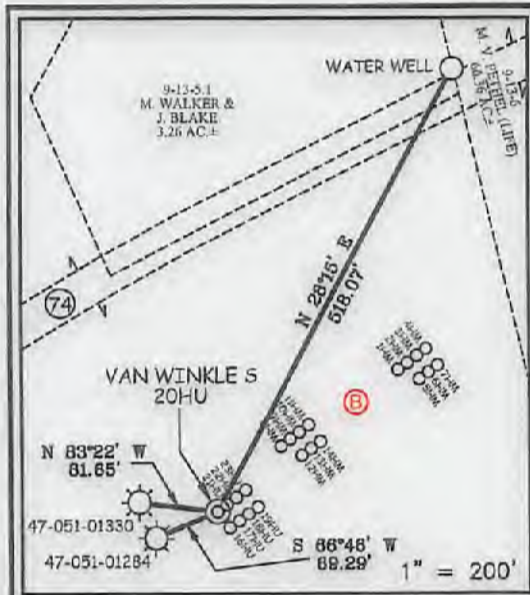


DETAIL 2
SCALE: 1" = 500'



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-20HU 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-21HU, PROPOSED VAN WINKLE S-22HU, PROPOSED VAN WINKLE S-23HU, KNOB CREEK N-11HU (47-051-02287).



12 Vashon Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5554
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 Bail Beckley Bypass | Beckley, WV 25801 | 304.255.5296
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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JANUARY 14, 20 21
REVISED MARCH 2, 2021
OPERATORS WELL NO. VAN WINKLE S 20HU
API WELL NO. 47-051-01330 02353 Deep
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P20HUR.dwg
VAN WINKLE S 20HU-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 WV-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: 11,201' / TMD: 26,758'

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

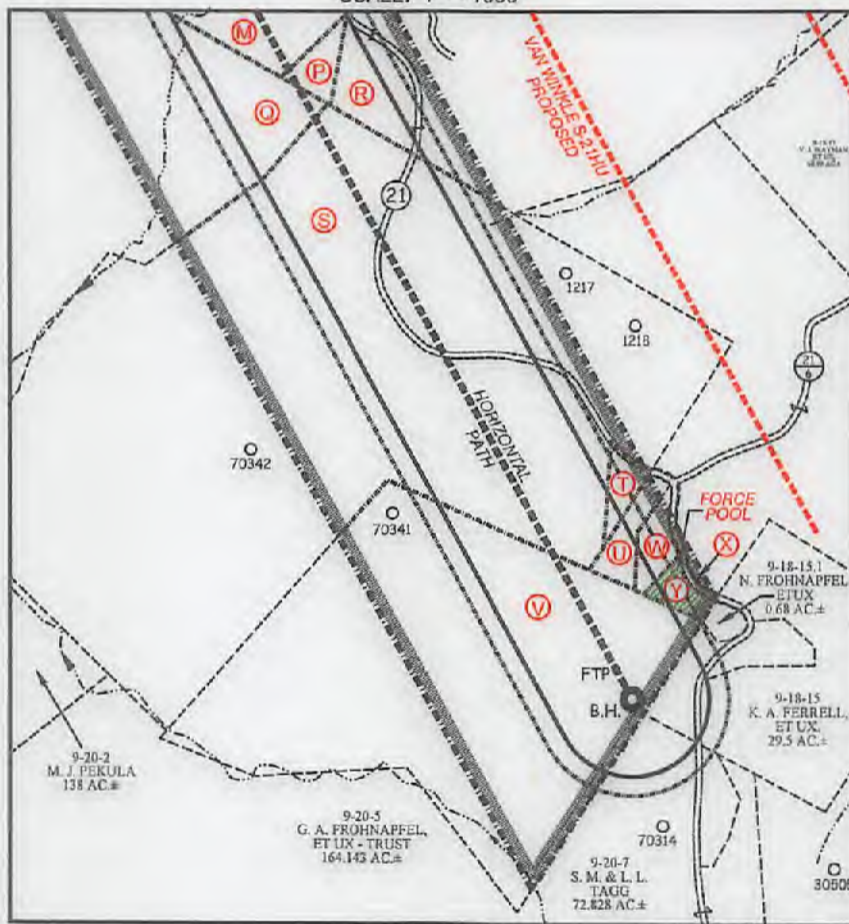
**HUNTER PETHTEL LEASE
UTICA UNIT - 553.35 AC±
VAN WINKLE S 20HU WELL
TUG HILL OPERATING**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Dynamite | Beckley, WV 25801 | 304.266.5296
slsw.com

NO.	Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Deed Book/Page
1	10*19250	9-13-4	A	LOUIS AULENBACHER ET AL	902 444
2	10*31312	9-13-5	B	DENNIS W & KATHY A HUNTER	668 155
3	10*19256	9-13-2	C	RACHEL B OSTRANDER, ET AL	915 516
4	10*21131	9-16-1	D	ROBERT M MCCARDLE & NANCY R MCCARDLE, ET AL	951 621
5	10*31380	9-13-26	E	OPAL M BLAKE	683 1
6	10*21131	9-13-24	F	ROBERT M MCCARDLE & NANCY R MCCARDLE, ET AL	951 621
7	10*27947	9-13-25	G	STONE HILL MINERALS HOLDINGS LLC, ET AL	1063 568
8	10*28268	9-16-5	H	JOSEPH & ELIZABETH SHUTLER	63 203
9	10*19083	9-16-2	I	RITA RAE STEPHENS, ET AL	683 302
10	10*19638	9-16-3	J	GREGORY J HALL, ET AL	944 461
11	10*28268	9-16-6	K	JOSEPH & ELIZABETH SHUTLER	63 203
12	10*28268	9-16-7	L	JOSEPH & ELIZABETH SHUTLER	63 203
13	10*28268	9-18-5	M	JOSEPH & ELIZABETH SHUTLER	63 203
14	10*18035	9-16-4	N	JFANETTE A SHUTLER DAVIS AND ROY J DAVIS, ET AL	927 84
15	10*28268	9-18-5.2	O	JOSEPH & ELIZABETH SHUTLER	63 203
16	10*28268	9-18-5.1	P	JOSEPH & ELIZABETH SHUTLER	63 203
17	10*28262	9-18-2	Q	JAMES W MESSEY ET AL	67 487
18	10*28268	9-18-6	R	JOSEPH & ELIZABETH SHUTLER	63 203
19	10*47051.047.1	9-18-18	S	JAMES E BLATT, ET AL	869 587
20	10*18326	9-18-18.1	T	JOHN F WAYMAN AND DOROTHY A WAYMAN	938 13
21	10*19952	9-18-16.2	U	JOHN F WAYMAN AND DOROTHY A WAYMAN	938 11
22	10*17899	9-20-6	V	JOHN CALVERT, ET AL	924 608
23	10*28265	9-18-16.3	W	ROBERT F VILLERS AND APRIL VILLERS	Pending
24	10*28265	9-18-16	X	ROBERT F VILLERS AND APRIL VILLERS	1073 381
25	**	9-18-16.1	Y	Nicholas Frohnapfel an Glenda J. Frohnapfel (a/k/a Jean Frohnapfel), his wife	

DETAIL 3
SCALE: 1" = 1000'



FILE NO. 8952P20HUR.dwg
VAN WINKLE S 20HU-REV3

DATE JANUARY 14, 20 21

REVISED MARCH 2, 2021

OPERATORS WELL NO. VAN WINKLE S 20HU

API WELL NO. 47 — 051 — 02353 Deep

STATE COUNTY PERMIT



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

07/16/2021

P.S. 849 C. Victor Moyers

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

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

COUNTY NAME
PERMIT