

**HUNTER PETHTEL LEASE  
UTICA UNIT - 351.42 AC±  
VAN WINKLE N 19HU WELL  
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. 469,126.94 E. 1,623,717.51  
NAD'83 GEO. LAT-(N) 39.781529 LONG-(W) 80.726855  
NAD'83 UTM (M) N. 4,403,545.21 E. 523,369.70  
**LANDING POINT**  
NAD'83 S.P.C.(FT) N. 469,845.0 E. 1,624,357.6  
NAD'83 GEO. LAT-(N) 39.783524 LONG-(W) 80.724613  
NAD'83 UTM (M) N. 4,403,767.2 E. 523,581.0  
**BOTTOM HOLE**  
NAD'83 S.P.C.(FT) N. 479,639.6 E. 1,618,975.2  
NAD'83 GEO. LAT-(N) 39.810208 LONG-(W) 80.744246  
NAD'83 UTM (M) N. 4,406,723.8 E. 521,891.4

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

TAG	SURFACE OWNER	PARCEL	ACRES
A	MARY VIRGINIA PETHTEL (LIFE)	9-13-6	66.36
B	XCL MIDSTREAM OPERATING, LLC	9-13-5	190.12
C	MICHAEL WALKER & JOSEPH BLAKE	9-13-5.1	3.26
D	MARY VIRGINIA PETHTEL (LIFE)	9-13-7	96.00
E	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
F	JOSEPH MICHAEL BONENE	9-10-15	44.00
G	COBLENTZ BROS. INC.	9-10-18	67.88
H	KENNETH W. MASON EST.	9-10-4	67.00
I	JOHN E. & JANET E. KELLEY, ET AL	9-10-19	113.08
J	KENNETH W. MASON EST.	9-10-5	51.62
K	WILLIAM N. ROLPE	9-10-3	52.00
L	J. F. CROW ESTATE, ET AL	9-6-15	35.25
M	KIMBERLY A. STEWART	9-6-1.1	100.00
N	CAROL VAN SCYOC	9-10-2	206.988
O	CONSOLIDATION COAL COMPANY	9-0-1.2	2,222
P	WILLIAM N. ROLPE	9-6-3	110.09
Q	CONSOLIDATION COAL COMPANY	9-6-3.1	10.00
R	WILLIAM F. RULONG, ET AL	5-9-11	56.00
S	ROBERT GREGORY MCGUIRE, ET UX	5-9-10	139.60
T	MICHAEL E. MCCARDLE, ET UX	9-4-17	65.791
U	ROBERT GREGORY MCGUIRE, ET UX	9-4-1	76.75
V	KRAIG & JOYCE RULONG	9-4-1.1	1.00
W	ROBERT GREGORY MCGUIRE, ET UX	9-4-2	43.233

PARCEL	SURFACE ADJOINER	ACRES
5-10-5	WILLIAM F. RULONG, ET AL	22.5
5-10-7	WILLIAM F. RULONG, ET AL	22.872
5-10-8	WILLIAM F. RULONG, ET AL	70.6672
9-10-2.1	SHERRY VAN SCYOC YOCUM & BLAINE VAN SCYOC	5.00
9-10-2.2	WALTER J. FEGAT, JR., ET UX	5.00
9-13-24	ROBERT N. & NANCY R. MCCARDLE	50.64
9-13-25	ROBERT N. & NANCY R. MCCARDLE	48.00
9-13-26	ROBERT N. & NANCY R. MCCARDLE	9.02



**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 N-19HU 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 S-20HU,  
PROPOSED VAN WINKLE S-21HU,  
PROPOSED VAN WINKLE S-22HU,  
PROPOSED VAN WINKLE S-23HU,  
KNOB CREEK N-11HU (47-051-02287),  
KNOB CREEK N-12HU (47-051-02268).

**REFERENCES**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.662.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25304 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 26011 | 304.255.5290  
sls-wv.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 FEBRUARY 25, 2021  
OPERATORS WELL NO. VAN WINKLE N 19HU  
API WELL NO. 47 - 051 - 02352 **Deep**  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P19HUR.dwg  
VAN WINKLE N 19HU-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

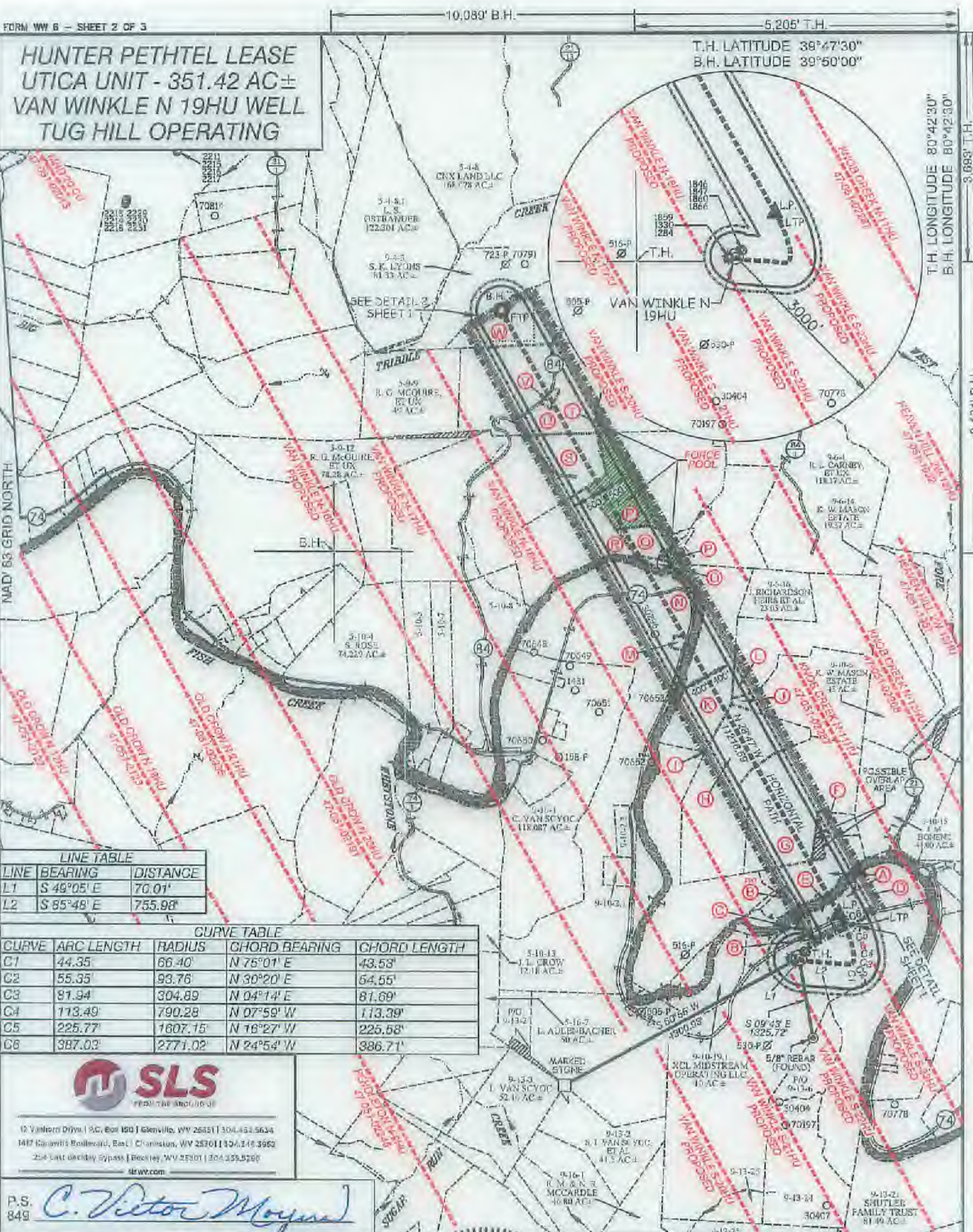
WELL TYPE: OIL  GAS  INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: GROUND: 756.10' ELEVATION PROPOSED: 753.50' WATERSHED FISH CREEK (HUC 10)  
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'  
SURFACE OWNER XCL MIDSTREAM OPERATING, LLC ACREAGE 190.12 ±  
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: 11,255' / TMD: 22,779'

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

07/09/2021

**HUNTER PETHTEL LEASE  
UTICA UNIT - 351.42 AC±  
VAN WINKLE N 19HU WELL  
TUG HILL OPERATING**



**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S 49°05' E	70.01'
L2	S 85°48' E	755.98'

**CURVE TABLE**

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	44.35'	66.40'	N 75°01' E	43.53'
C2	55.35'	93.76'	N 30°20' E	64.55'
C3	81.94'	304.89'	N 04°14' E	81.69'
C4	113.49'	790.28'	N 07°59' W	113.39'
C5	225.77'	1607.15'	N 16°27' W	225.58'
C6	387.03'	2771.02'	N 24°54' W	386.71'



12 Vidler Drive, P.O. Box 150 | Glenville, WV 26031 | 304.453.5634  
1417 Canawish Boulevard, Basl | Charleston, WV 25301 | 304.245.3952  
254 East Barclay Bypass | Beckley, WV 25801 | 304.259.5296  
sls.wv.com

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

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SCALE 1" = 2000' FILE NO. 8952P19HUR.dwg  
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OPERATORS WELL NO. VAN WINKLE N 19HU  
API WELL 47-051-02352 Dep  
NO. STATE COUNTY PERMIT



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

(+) 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)

07/09/2021

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

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