

**HUNTER PETHTEL LEASE  
VAN WINKLE N 5HM WELL  
TUG HILL OPERATING**

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

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

NAD'83 GRID NORTH

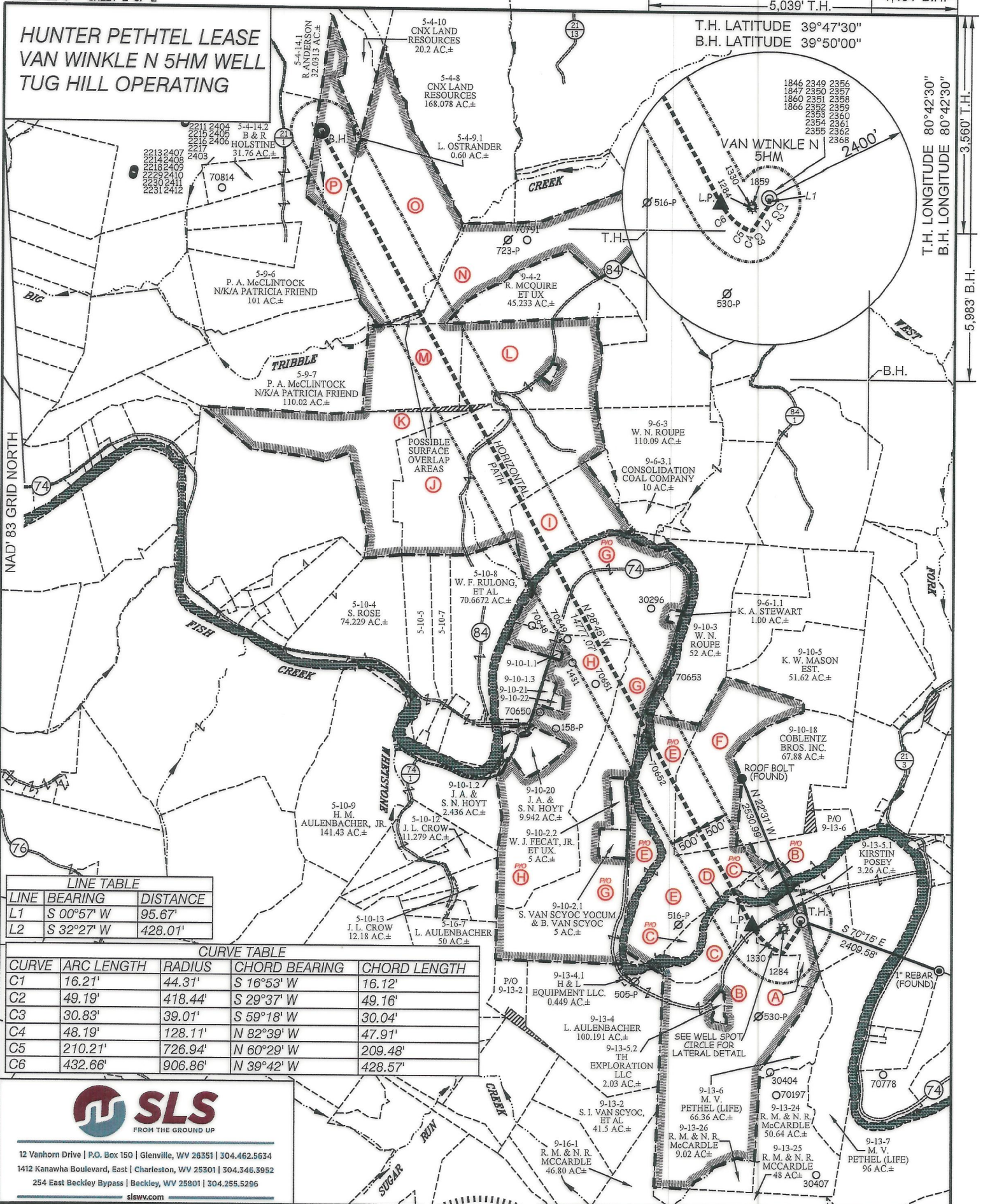
NAD'83 GRID NORTH

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**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S 00°57' W	95.67'
L2	S 32°27' W	428.01'

**CURVE TABLE**

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	16.21'	44.31'	S 16°53' W	16.12'
C2	49.19'	418.44'	S 29°37' W	49.16'
C3	30.83'	39.01'	S 59°18' W	30.04'
C4	48.19'	128.11'	N 82°39' W	47.91'
C5	210.21'	726.94'	N 60°29' W	209.48'
C6	432.66'	906.86'	N 39°42' W	428.57'

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 Bypass | Beckley, WV 25801 | 304.255.5296  
 slsww.com

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

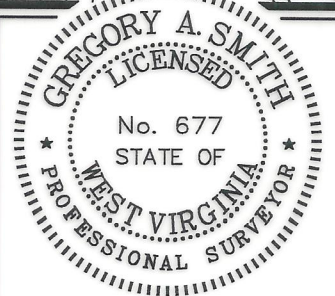
NAD'83 S.P.C.(FT)	N. 469,258.32	E. 1,623,885.78
NAD'83 GEO.	LAT-(N) 39.781896	LONG-(W) 80.726263
NAD'83 UTM (M)	N. 4,403,586.09	E. 523,440.30

**LANDING POINT**

NAD'83 S.P.C.(FT)	N. 469,167.1	E. 1,623,096.2
NAD'83 GEO.	LAT-(N) 39.781616	LONG-(W) 80.729068
NAD'83 UTM (M)	N. 4,403,554.3	E. 523,200.2

**BOTTOM HOLE**

NAD'83 S.P.C.(FT)	N. 482,122.6	E. 1,615,988.6
NAD'83 GEO.	LAT-(N) 39.816910	LONG-(W) 80.755000
NAD'83 UTM (M)	N. 4,407,465.0	E. 520,968.9



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

P.S. 677 *Gregory A. Smith*

SCALE 1" = 2000' FILE NO. 8952P5HMR5.dwg  
 VAN WINKLE N 5HM-REV3  
 DATE DECEMBER 4, 20 20  
 REVISED 12-10-2020, 12-22-2020, 6-1-2022, 03-29-23  
 OPERATORS WELL NO. VAN WINKLE N 5HM  
 API WELL 47 — 051 — 02347  
 NO. STATE COUNTY PERMIT

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

**LEGEND**

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

04/14/2023

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

COUNTY NAME PERMIT

# HUNTER PETHTEL LEASE VAN WINKLE N 5HM WELL TUG HILL OPERATING

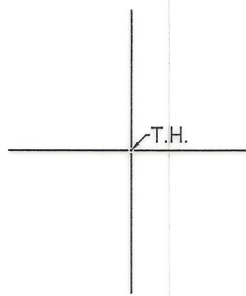
5,039' T.H. 1,404' B.H.

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

T.H. LONGITUDE 80°42'30"  
B.H. LONGITUDE 80°42'30"  
3,560' T.H.  
5,983' B.H.

### 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.



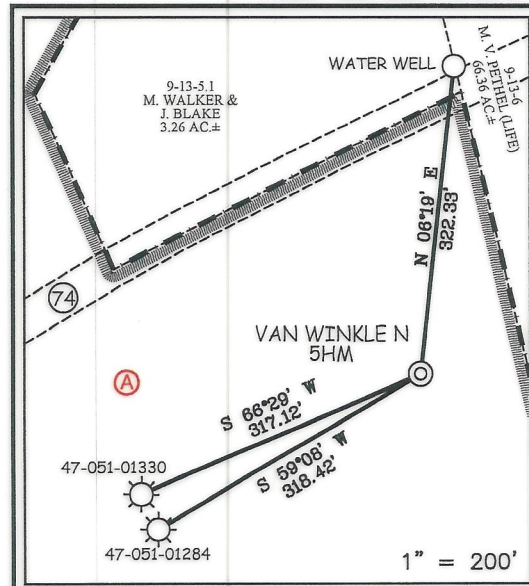
PARCEL	SURFACE ADJOINER	ACRES
9-10-1.1	CONNIE S. CUNNINGHAM	0.482
9-10-1.3	FINLEY D. MONTGOMERY, ET UX	20.294
5-10.5	WILLIAM F. RULONG, ET AL	27.5
5-10-7	WILLIAM F. RULONG, ET AL	22.872
5-10-8.1	SAMUEL D. & BECKY ROBINSON	1.511
9-10-21	JAMES & VICKIE J. MASON	2.00
9-10-22	JAMES & VICKIE J. MASON	1.169

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

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TAG	SURFACE OWNER	PARCEL	ACRES
A	TH EXPLORATION	9-13-5.3	16.10
B	XCL MIDSTREAM OPERATING, LLC	9-13-5	168.73
C	XCL MIDSTREAM OPERATING, LLC	9-10-19.1	10.00
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	ALAN KELLEY, ET AL	9-10-19	113.08
F	KENNETH W. MASON EST.	9-10-4	67.00
G	CAROL VAN SCYOC EST	9-10-2	206.988
H	CAROL VAN SCYOC EST	9-10-1	118.087
I	WILLIAM F. RULONG, ET AL	5-9-11	56.00
J	ROBERT GREGORY MCGUIRE, ET UX	5-9-10	139.60
K	ROBERT GREGORY MCGUIRE, ET UX	5-9-12	78.28
L	ROBERT GREGORY MCGUIRE, ET UX	9-4-1	76.75
M	ROBERT GREGORY MCGUIRE, ET UX	5-9-9	49
N	SCOTTIE LYONS ET UX	9-4-3	81.33
O	LINDA S. OSTRANDER	5-4-8.1	122.301
P	FRED H. MORRIS ET UX	5-4-9	36.292

### REFERENCES



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 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. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE DECEMBER 4, 20 20  
REVISED 12-10-2020, 12-22-2020, 6-1-2022, 03-29-23  
OPERATORS WELL NO. VAN WINKLE N 5HM  
API WELL NO. 47 - 051 - 02347  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P5HMR5.dwg  
VAN WINKLE N 5HM-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  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION:  
ELEVATION 753.50' WATERSHED FISH CREEK (HUC 10)  
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'  
SURFACE OWNER TH EXPLORATION, LLC ACREAGE 16.10 ±  
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 MARCELLUS  
ESTIMATED DEPTH TVD: 6,289' / TMD: 21,400'

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

COUNTY NAME  
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04/14/2023