

**HUNTER PETHTEL LEASE
VAN WINKLE N 1HM 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. 469,267.73 E. 1,623,863.71
NAD'83 GEO. LAT-(N) 39.781921 LONG-(W) 80.726342
NAD'83 UTM (M) N. 4,403,588.85 E. 523,433.52

LANDING POINT

NAD'83 S.P.C.(FT) N. 467,710.3 E. 1,620,472.3
NAD'83 GEO. LAT-(N) 39.777518 LONG-(W) 80.738332
NAD'83 UTM (M) N. 4,403,097.1 E. 522,408.2

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 480,118.9 E. 1,613,656.8
NAD'83 GEO. LAT-(N) 39.811320 LONG-(W) 80.763200
NAD'83 UTM (M) N. 4,406,842.7 E. 520,268.7

T.H. LONGITUDE 80°42'30"
B.H. LONGITUDE 80°45'00"
3,550' T.H.

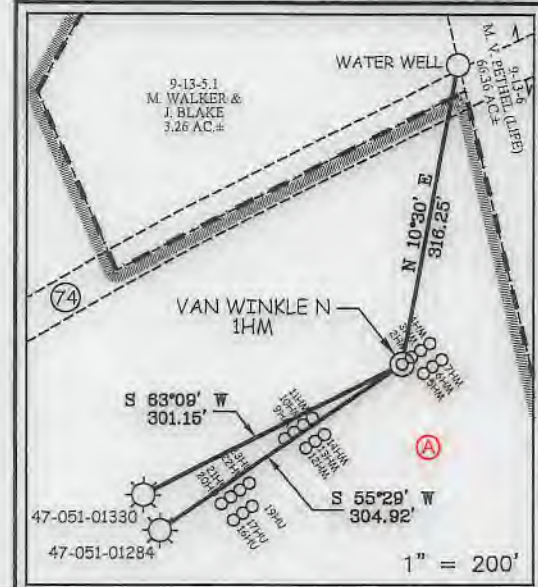
PARCEL	SURFACE ADJOINER	ACRES
5-9-13	KAREN M. KAZEMKA (NKA KAREN M. WILSON)	3.69
5-9-14	DENNIS P. CADMUS	136 POLES
5-9-15	DENNIS P. CADMUS	3.85
5-9-16	SHEENA ROSE	1.65
5-9-17	DENNIS P. CADMUS	28.063
5-9-24	DENNIS P. CADMUS	21 AC. 49 P.
5-10-4.2	JACK E. RECTOR	2.887
5-10-4.3	ANTHONY A. & KAREN L. ANKROM	5.697
5-10-4.7	LINDA BECHTOLD, ET AL	2.110
5-10-4.8	SAMUEL FRANKLIN	1.8808
5-10-4.9	JAMES E. & KAREN M. WILSON	0.8692
5-10-4.10	SHEENA ROSE	0.803
5-10-4.11	JASON E. BONNETTE	1.5
5-10-6	WILLIAM F. RULONG, ET AL	P/O 1.00
5-10-8.1	SAMUEL D. & BECKY ROBINSON	1.511
9-10-1.1	CONNIE S. CUNNINGHAM	0.482
9-10-1.2	JOSHUA A. & SHANNON N. HOYT	2.436
9-10-1.3	FINLEY D. MONTGOMERY, ET UX	20.294
9-10-2.1	SHERRY VAN SCYOC YOCUM & BLAINE VAN SCYOC	5.00
9-10-2.2	WALTER J. FECAT, JR., ET UX	5.00
9-10-10	LOUIS DELBERT VAN SCYOC	24.50
9-10-12	JOSEPH LEE CROW	11.279
9-10-13	JOSEPH LEE CROW	12.18
9-10-20	JOSHUA A. & SHANNON N. HOYT	9.942
9-10-21	JAMES & VICKIE J. MASON	2.00
9-10-22	JAMES & VICKIE J. MASON	1.169
9-13-4.1	H & L EQUIPMENT, LLC	0.449



8,019' B.H.

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	LOUIS AULENBACHER	9-13-4	100.191
D	CAROL VAN SCYOC EST	9-10-2	206.988
E	CAROL VAN SCYOC EST	9-10-1	118.087
F	HERBERT M. AULENBACHER, JR.	5-10-9	141.43
G	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
H	WILLIAM F. RULONG, ET AL	5-10-8	70.6672
I	WILLIAM F. RULONG, ET AL	5-10-7	22.872
J	WILLIAM F. RULONG, ET AL	5-10-5	27.5
K	SHEENA ROSE	5-10-4	65.16
L	SHEENA ROSE	5-10-4.12	20.07
M	JASON J. STEED	5-9-13.2	135.61
N	ROBERT GREGORY MCQUIRE, ET UX	5-9-12	78.28
O	PATRICIA McCLINTOCK	5-9-7	110.02
P	PATRICIA McCLINTOCK	5-9-6	101
Q	JAMES REDMENN LEGG, II ET AL	5-9-3	49

REFERENCES



NOTES ON SURVEY

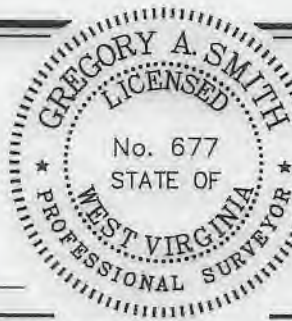
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.



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
slsvv.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 JANUARY 20, 2021
REVISED JUNE 1, 2022

OPERATORS WELL NO. VAN WINKLE N 1HM
API WELL NO. 47 - 051 - 02363
STATE COUNTY PERMIT MOD

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8952P1HMR.dwg
VAN WINKLE N 1HM-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: 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 WV-6A1 ACREAGE 190.12 ±
PROPOSED WORK: LEASE NO. SEE WV-6A1
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: 6,219' / TMD: 22,034'

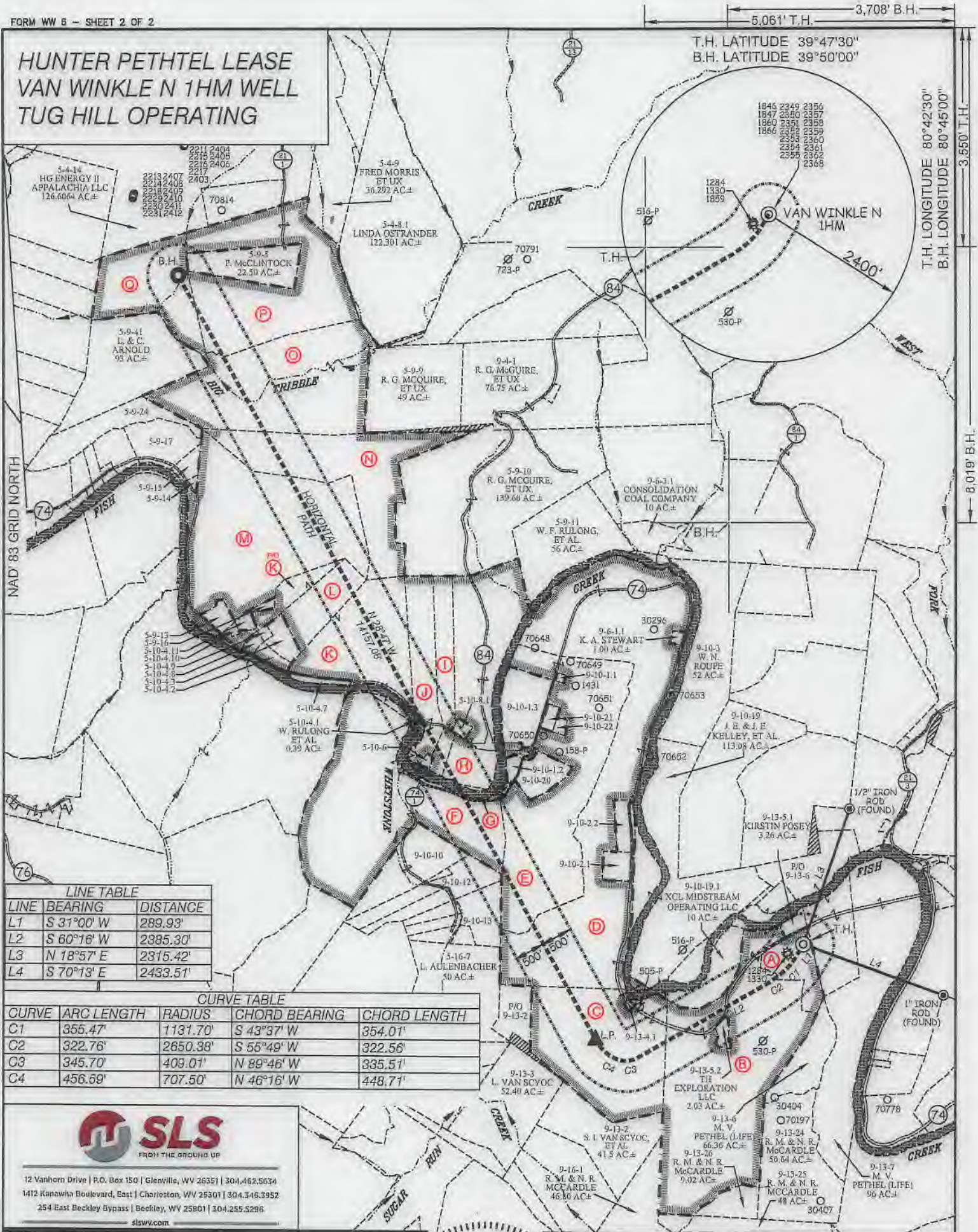
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

HUNTER PETHEL LEASE VAN WINKLE N 1HM 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°45'00"



LINE	BEARING	DISTANCE
L1	S 31°00' W	289.93'
L2	S 60°16' W	2385.30'
L3	N 18°57' E	2315.42'
L4	S 70°13' E	2433.51'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	355.47'	1131.70'	S 43°37' W	354.01'
C2	322.76'	2650.38'	S 55°49' W	322.56'
C3	345.70'	409.01'	N 89°46' W	335.51'
C4	456.59'	707.50'	N 46°16' W	448.71'



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 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slswv.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 677 *Gregory A. Smith*

SCALE 1" = 2000' FILE NO. 8952P1HMR.dwg
 VAN WINKLE N 1HM-REV3
 DATE JANUARY 20, 20 21
 REVISED JUNE 1, 2022
 OPERATORS WELL NO. VAN WINKLE N 1HM
 API WELL NO. 47 - 051 - 02363 MDP
 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	00-00
SURFACE OWNER (SEE TABLE)	(A)
LEASE # (SEE WW-5A1)	

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

COUNTY NAME
PERMIT