

**WILLETT N LEASE
1HM
TUG HILL OPERATING**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°52'30"

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

NAD'83 S.P.C.(FT) N. 483,948.41 E. 1,643,786.07
NAD'83 GEO. LAT-(N) 39.822946 LONG-(W) 80.656131
NAD'83 UTM (M) N. 4,408,162.82 E. 529,428.23

LANDING POINT

NAD'83 S.P.C.(FT) N. 482,726.2 E. 1,646,615.4
NAD'83 GEO. LAT-(N) 39.819691 LONG-(W) 80.646003
NAD'83 UTM (M) N. 4,407,804.9 E. 530,296.4

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 492,820.5 E. 1,640,905.9
NAD'83 GEO. LAT-(N) 39.847198 LONG-(W) 80.666795
NAD'83 UTM (M) N. 4,410,851.1 E. 528,505.6

T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°40'00"

10,127' B.H.

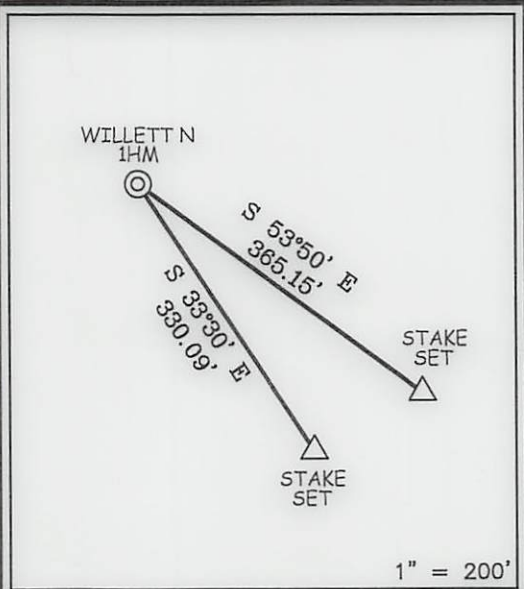
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-12-22	MARSHALL COUNTY COAL COMPANY	6.80
3-12-22.1	CNX LAND, LLC	0.43
3-12-22.2	GARY W. MORRIS, ET UX	2.06
3-12-24.1	CNX LAND, LLC	0.22
3-19A-55	CNX LAND, LLC	P/O 82.47
3-19A-63	DOUGLAS & PAMELA MYERS	2.73
9-3-2.1	JAMES & GINGER REGIEC	0.940
9-3-4.1	DANIEL WEST, ET UX	0.986
9-3-4.2	GRANT M. & MALISSA D. CARTER	0.720
9-3-4.3	JOHN & RACHELL HOLPP	0.870
9-3-4.4	JIM & GINGER REGIEC	1.044
9-3-4.6	DANIEL R. WEST, ET UX	12.035
9-3-6.1	TRAVIS POSTLETHWAIT	1.0468
9-3-8	MARSHALL COUNTY COAL COMPANY	4.12
9-3-15.1	MARSHALL COUNTY PUBLIC SERVICE DISTRICT #4	0.2296
9-3-17.1	BRIAN & LEAH KESTNER	11.8
9-8-5.2	AMY EVANS & KAREN WHETZAL	4.586
9-8-6.1	KAYLA E. BRATTON	1.423
9-9-7.1	RAYMOND DEWAINA DOBBS, ET AL	9.00
9-9-7.2	XCL PROCESSING OPERATING LLC	3.907
9-9-7.3	JEFFREY B. THOMAS	1.297

T.H.

P/O 82.47

TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND, LLC	9-8-6	27.596
B	LARRY S. NEELY - LIFE	9-8-7.1	76.005
C	JAMES RICHARD BLAKE, ET UX	9-8-9	42.49
D	JAMES RICHARD BLAKE, ET UX	9-8-8	49.86
E	GLEN G. CORCZYCA - TOD	9-9-6	25.12
F	RAYMOND DEWAINA DOBBS, ET AL	9-3-14	81.331
G	TREVOR L. NEELY	9-8-7	8.613
H	CNX LAND, LLC	9-3-16	53.00
I	CNX LAND, LLC	9-3-17	65.86
J	ALVIN D. & CAROL D. BARRETT	9-3-7	27.19
K	ALVIN D. & CAROL D. BARRETT	9-3-6	29.9702
L	GRANT M. & MALISSA D. CARTER	9-3-4.5	50.543
M	JAMES & GINGER REGIEC	9-3-4.7	25.025
N	JAMES E. JR., & GINGER REGIEC	9-3-3	68.30
O	CNX LAND, LLC	3-12-28	P/O 82.47
P	EFFIE A. STERN EST., ET AL	3-12-8	4.29
Q	ROBERT W. ZIRKLE, ET AL	3-12-9	30.71

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'

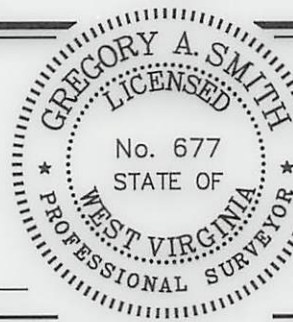


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295
sllsv.com

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 SEPTEMBER 8, 20 21

REVISED _____, 20 _____

OPERATORS WELL NO. WILLETT N 1HM **MO**

API WELL NO. 47 - 051 - 02437
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8939P1HM.dwg
WILLETT N 1HM-REV1
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 1,310.03' WATERSHED TRIBUTARY OF UPPER BOWMAN RUN

DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 27.596±

ROYALTY OWNER APPALACHIAN BASIN MINERALS, LP, ET AL ACREAGE 27.597

PROPOSED WORK: LEASE NO. SEE WW-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: 7,017' / TMD: 20,108'

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

07/01/2022

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TUG HILL OPERATING**

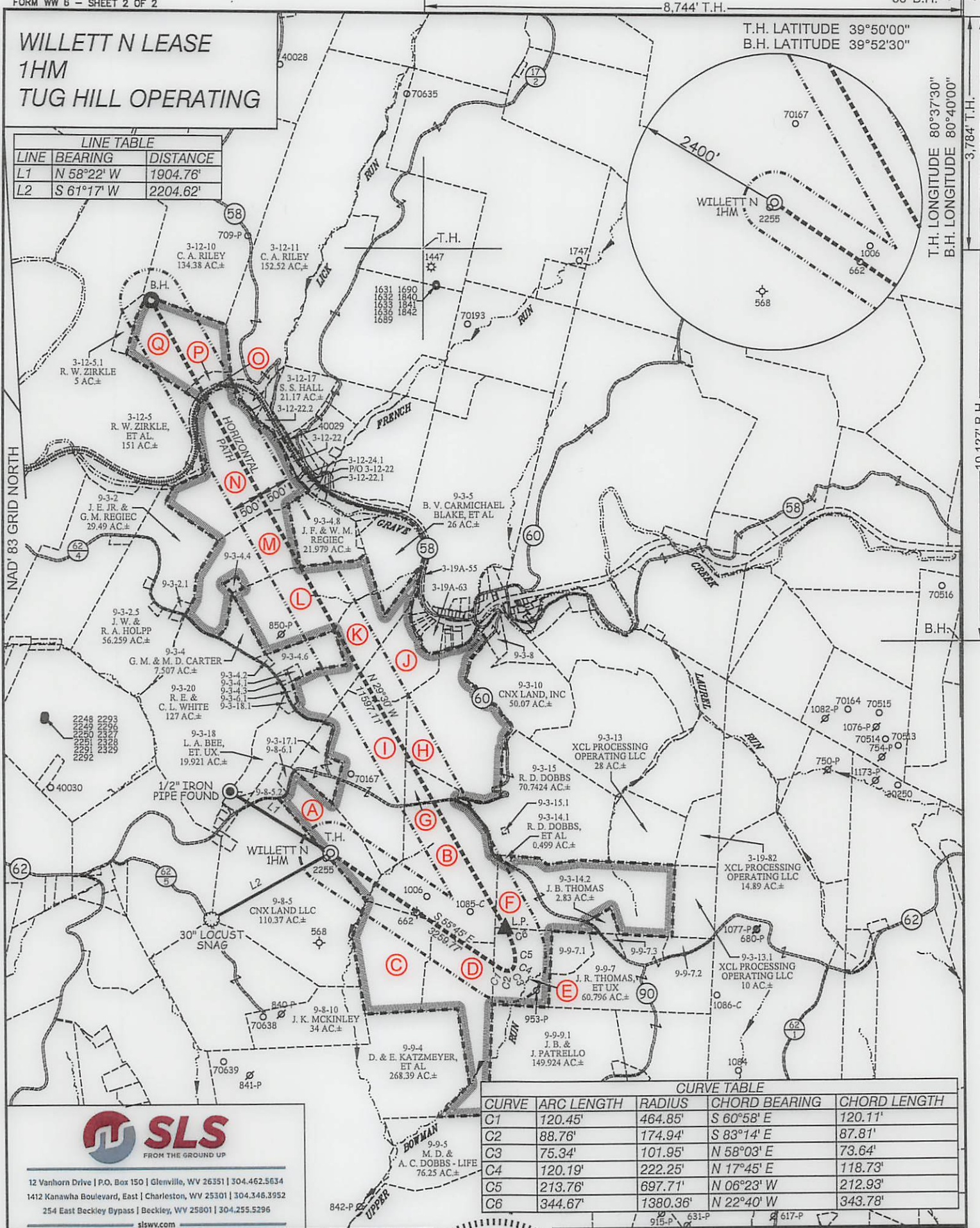
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B.H. LATITUDE 39°52'30"

T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°40'00"

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 58°22' W	1904.76'
L2	S 61°17' W	2204.62'

NAD'83 GRID NORTH



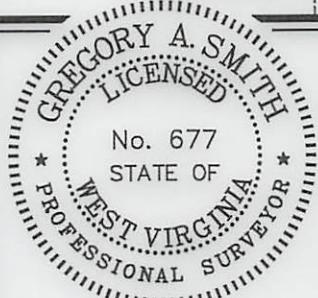
CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	120.45'	464.85'	S 60°58' E	120.11'
C2	88.76'	174.94'	S 83°14' E	87.81'
C3	75.34'	101.95'	N 58°03' E	73.64'
C4	120.19'	222.25'	N 17°45' E	118.73'
C5	213.76'	697.71'	N 06°23' W	212.93'
C6	344.67'	1380.36'	N 22°40' W	343.78'



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

P.S. 677 *Gregory A. Smith*

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)

SCALE 1" = 2000' FILE NO. 8939P1HM.dwg
WILLETT N 1HM-REV1
DATE SEPTEMBER 8, 20 21
REVISED _____, 20 _____
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