

**WILLETT S LEASE
7HM
TUG HILL OPERATING**

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

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

NAD'83 S.P.C.(FT)	N. 493,994.24	E. 1,643,771.81
NAD'83 GEO.	LAT-(N) 39.823071	LONG-(W) 80.656184
NAD'83 UTM (M)	N. 4,408,176.71	E. 529,423.68
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 484,175.5	E. 1,647,434.2
NAD'83 GEO.	LAT-(N) 39.823698	LONG-(W) 80.643154
NAD'83 UTM (M)	N. 4,408,250.6	E. 530,538.5
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 474,216.2	E. 1,653,087.6
NAD'83 GEO.	LAT-(N) 39.798554	LONG-(W) 80.622584
NAD'83 UTM (M)	N. 4,405,245.2	E. 532,311.6

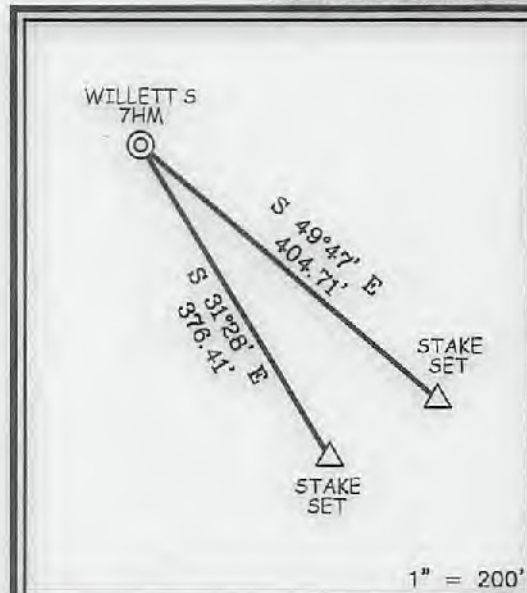
T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°35'00"

T.H.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-19-77	SONJA J. STROPE	46.783
3-18-78	CNX LAND, LLC	30.927
3-19-81	XCL PROCESSING OPERATING LLC	26.52
3-19-82	XCL PROCESSING OPERATING LLC	14.89
7-1-7.1	NANCY L. PARSONS	0.5
7-1-19	JEAN JAMISON	51.89
7-7-2	KAREN S. EVANS & JUDY KAY MATTHEWS	24.50
7-7-8.1	KENNETH WAYNE STEBLE TRUST	79.03
9-3-13	XCL PROCESSING OPERATING LLC	28.00
9-3-13.1	XCL PROCESSING OPERATING LLC	10.00
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 DEWAINE DOBBS, ET AL.	9.00
9-9-7.2	XCL PROCESSING OPERATING LLC	3.907
9-9-7.3	JEFFREY B. THOMAS	1.297
9-9-8.1	DIANA MAE PIATT	2.253
9-9-8.2	VINCENT PATRELLO	0.723
9-9-9	VINCENT P. PATRELLO	1.076

TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND, LLC	9-8-6	27.596
B	CNX LAND, LLC	9-3-17	65.86
C	LARRY S. NEELY - LIFE	9-8-7.1	76.005
D	RAYMOND DEWAINE DOBBS, ET AL.	9-3-15	70.7424
E	RAYMOND DEWAINE DOBBS, ET AL.	9-3-14	81.331
F	JEFFREY B. THOMAS	9-3-14.2	2.83
G	JEFFREY B. THOMAS	9-9-7.3	1.297
H	JAMES R. THOMAS, ET UX	9-9-7	60.796
I	JAMES D. BLAKE, ET AL	9-9-8	52.144
J	ANNA D. MORRIS - TOD	7-1-1	179.00
K	JOSEPH B. & JUDITH PATRELLO	9-9-9.1	140.924
L	KAREN S. EVANS & JUDY KAY MATTHEWS	7-1-5	116.915
M	CNX LAND, LLC	7-1-4	52.00
N	GEO A. BURRIS	7-8-14	95.44
O	KAREN S. EVANS & JUDY KAY MATTHEWS	7-7-1	124.12

REFERENCES



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'



12 Vannom Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Dackley Bypass | Beckley, WV 25801 | 304.255.5296
slsw.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. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
DATE SEPTEMBER 8, 20 21
REVISED _____, 20 _____
OPERATORS WELL NO. WILLETT S 7HM
API WELL NO. 47 - 051 - 02421
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8939P7HM.dwg
WILLETT S 7HM-REV2
HORIZONTAL & VERTICAL SCALE 1" = 2000'
CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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 01/07/2022

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: 6,995' / TMD: 19,827'

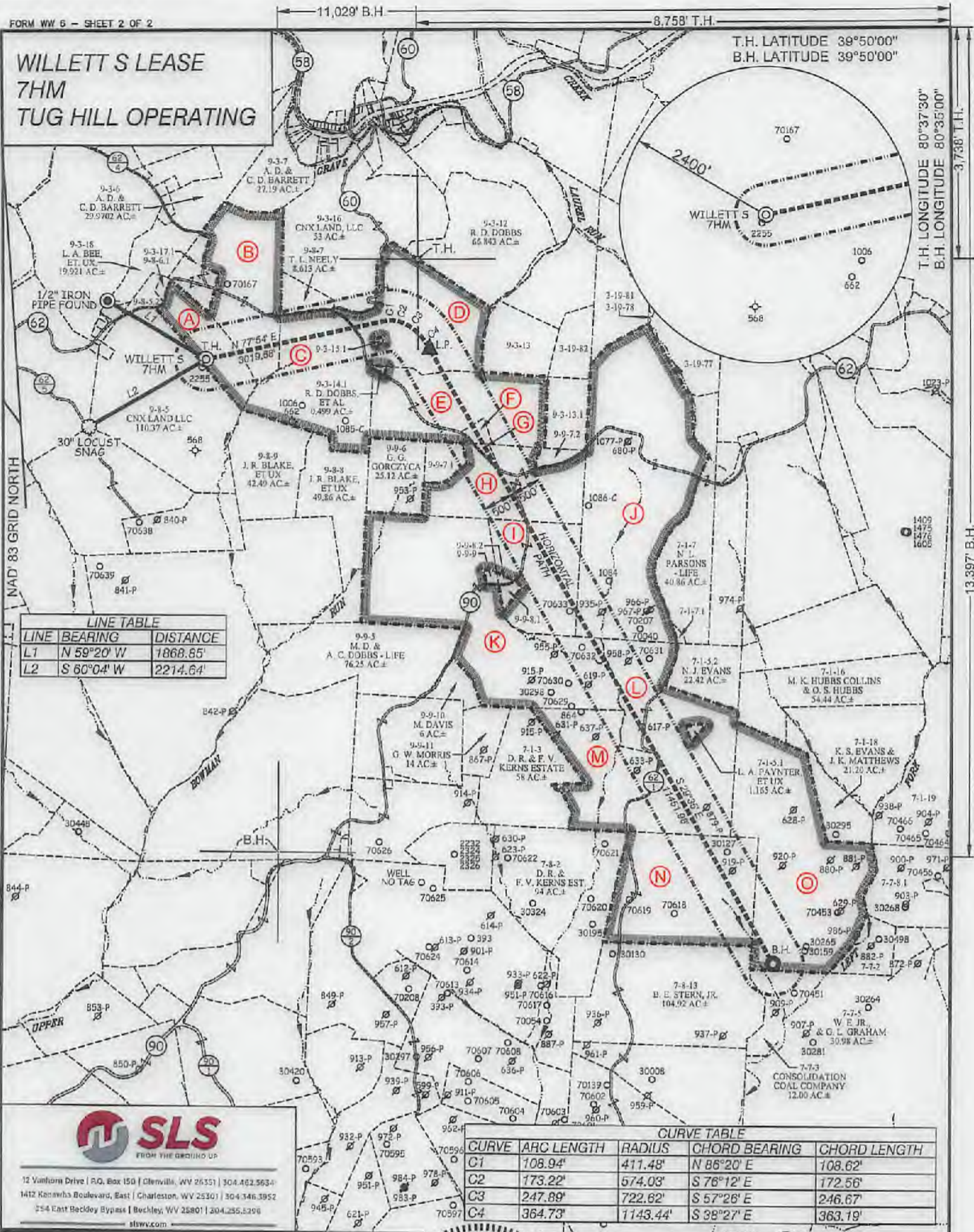
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

**WILLETT S LEASE
7HM
TUG HILL OPERATING**

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

T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°35'00"



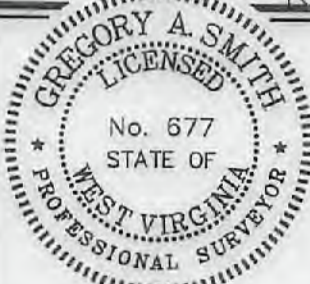
LINE	BEARING	DISTANCE
L1	N 59°20' W	1868.85'
L2	S 60°04' W	2214.64'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	108.94'	411.48'	N 86°20' E	108.62'
C2	173.22'	574.03'	S 76°12' E	172.56'
C3	247.89'	722.62'	S 57°26' E	246.67'
C4	364.73'	1143.44'	S 38°27' E	363.19'



12 Vanders Drive | P.O. Box 150 | Clarksburg, WV 26301 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 26801 | 204.255.5206
slswv.com

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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. 8939P7HM.dwg
 WILLET S 7HM-REV2
 DATE SEPTEMBER 8, 20 21
 REVISED _____, 20 ____
 OPERATORS WELL NO. WILLET S 7HM
 API WELL NO. 47 - 051 - 02421
 STATE COUNTY PERMIT

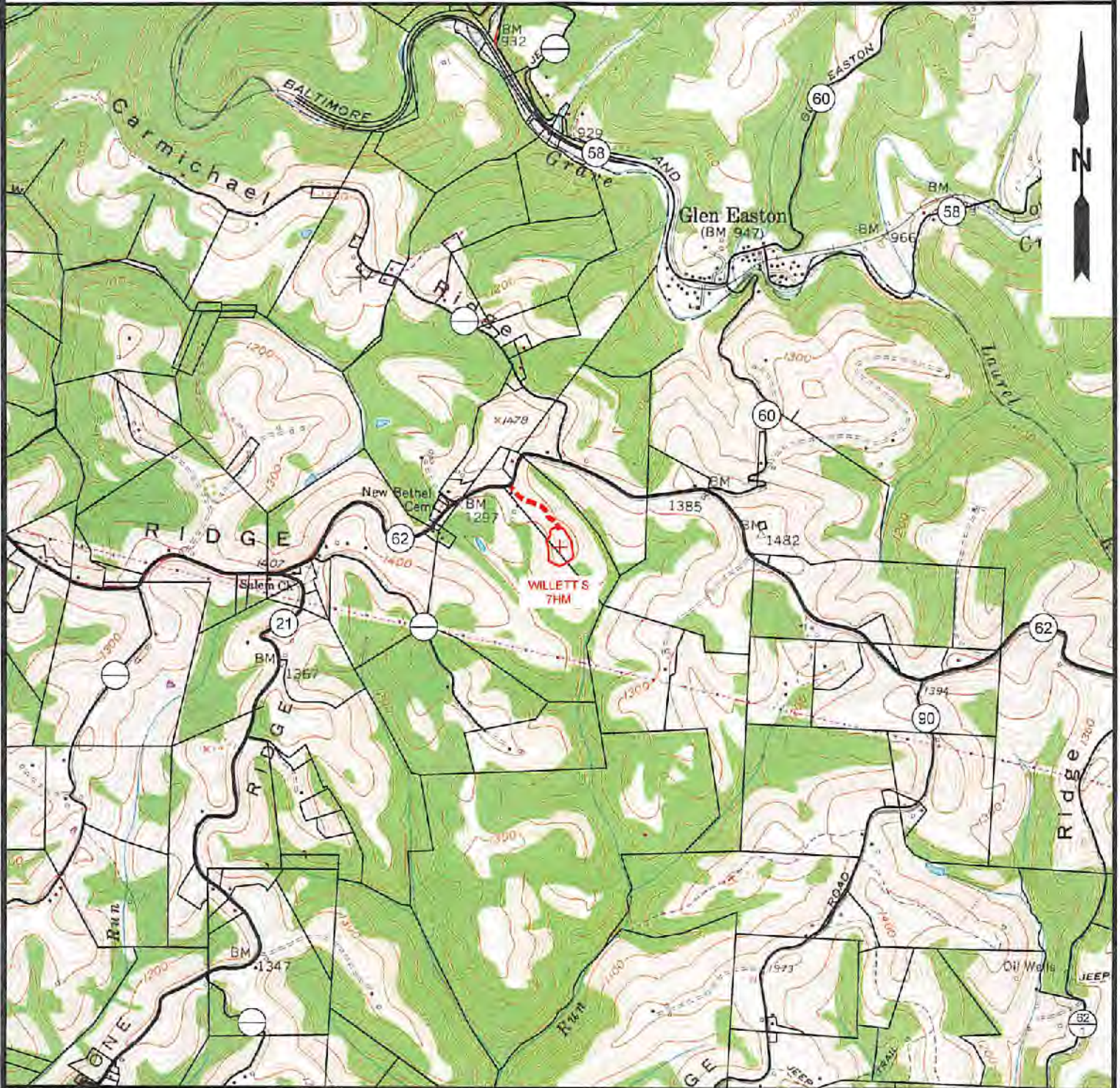
STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
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 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
 FORT WORTH, TX 76107 CHARLESTON, WV 25313-1551

COUNTY NAME PERMIT

PROPOSED WILLETT S - 7HM



NOTE: CLOSEST WATER PURVEYOR
CITY OF CAMERON - FRANK WALKER RESERVOIR
CAMDEN, WV

LAT: 39.829865
LON: -80.573724
LOCATED: N 84°36'39" E AT 23,313.72' FROM THE CENTER OF WILLETT S WELL PAD LOCATION.



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s|sw.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
		SUITE 200	
		CANONSBURG, PA 15317	
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8939	09/14/2021	1" = 2000'



TUG HILL
OPERATING

01/07/2022