

**WILLETT S LEASE
3HM
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. 483,971.32 E. 1,843,778.94
NAD'83 GEO. LAT-(N) 39.823009 LONG-(W) 80.656158
NAD'83 UTM (M) N. 4,408,169.77 E. 529,425.95

LANDING POINT

NAD'83 S.P.C.(FT) N. 482,249.6 E. 1,646,665.1
NAD'83 GEO. LAT-(N) 39.818385 LONG-(W) 80.645733
NAD'83 UTM (M) N. 4,407,560.0 E. 530,320.1

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 472,969.3 E. 1,651,919.9
NAD'83 GEO. LAT-(N) 39.793091 LONG-(W) 80.626684
NAD'83 UTM (M) N. 4,404,859.4 E. 531,962.2

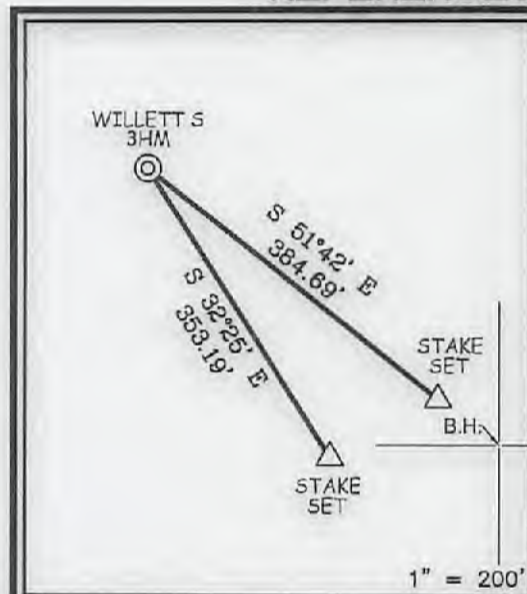
T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°37'30"
3,781' T.H.



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	GLEN G. GORCZYCA - TOD	9-9-6	25.12
D	JOSEPH B. & JUDITH PATRELLO	9-9-9.1	149.924
E	DANNY R. & FRANCES V. KERNS ESTATE	7-1-3	58.00
F	CONSOLIDATION COAL COMPANY	7-1-4	52.00
G	DANNY R. & FRANCES V. KERNS ESTATE	7-8-2	94.00
H	GEO A. BURRIS	7-8-14	95.44
I	BLAINE E. STERN, JR.	7-8-13	104.92

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-3-17.1	BRIAN & LEAH KESTNER	11.8
9-8-5.2	AMY EVANS & KAREN WHITZAL	4.586
9-8-6.1	KAYLA F. BRATTON	1.423
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

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
slsvv.com

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 525' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'



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 2, 20 21
REVISED _____, 20 ____
OPERATORS WELL NO. WILLETT S 3HM
API WELL NO. 47 - 051 - 02415
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8939P3HM.dwg
WILLETT S 3HM-REV2
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 10/92/2021

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: 7,018' / TMD: 18,749'

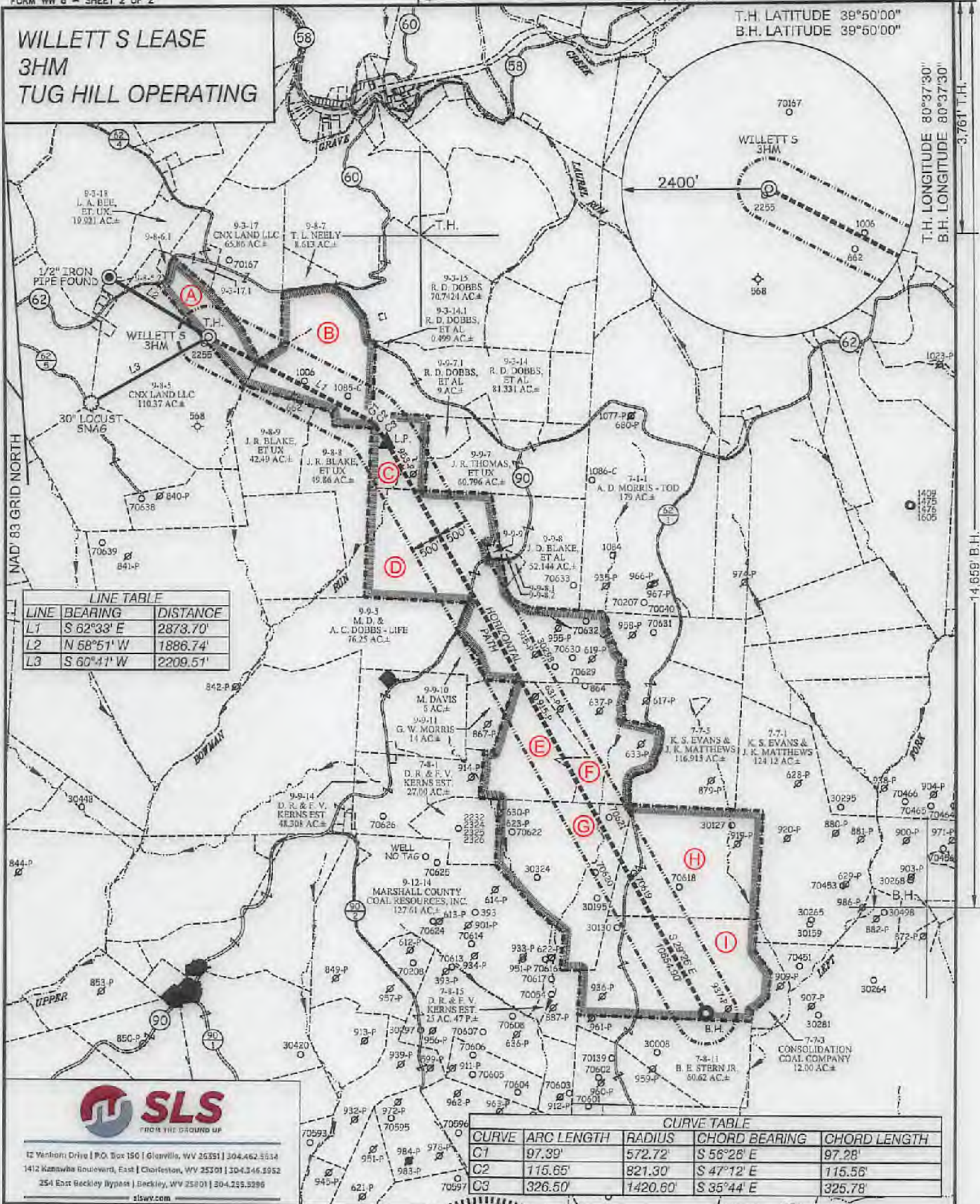
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME
PERMIT

**WILLETT S LEASE
3HM
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°37'30"



LINE TABLE

LINE	BEARING	DISTANCE
L1	S 62°33' E	2873.70'
L2	N 58°51' W	1886.74'
L3	S 60°41' W	2209.51'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	97.39'	572.72'	S 56°28' E	97.28'
C2	115.65'	821.30'	S 47°12' E	115.56'
C3	326.50'	1420.60'	S 35°44' E	325.78'



12 Venhorn Drive | P.O. Box 150 | Glenville, WV 26551 | 304.462.5514
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com



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

P.S. *Gregory A. Smith*
677

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-8A1)

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

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SCALE 1" = 2000' FILE NO 8939P3HM.dwg
WILLETT S 3HM-REV2
DATE SEPTEMBER 2, 20 21
REVISED _____, 20 ____
OPERATORS WELL NO. WILLETT S 3HM
API WELL NO. 47 STATE 051 COUNTY PERMIT 02415

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

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION
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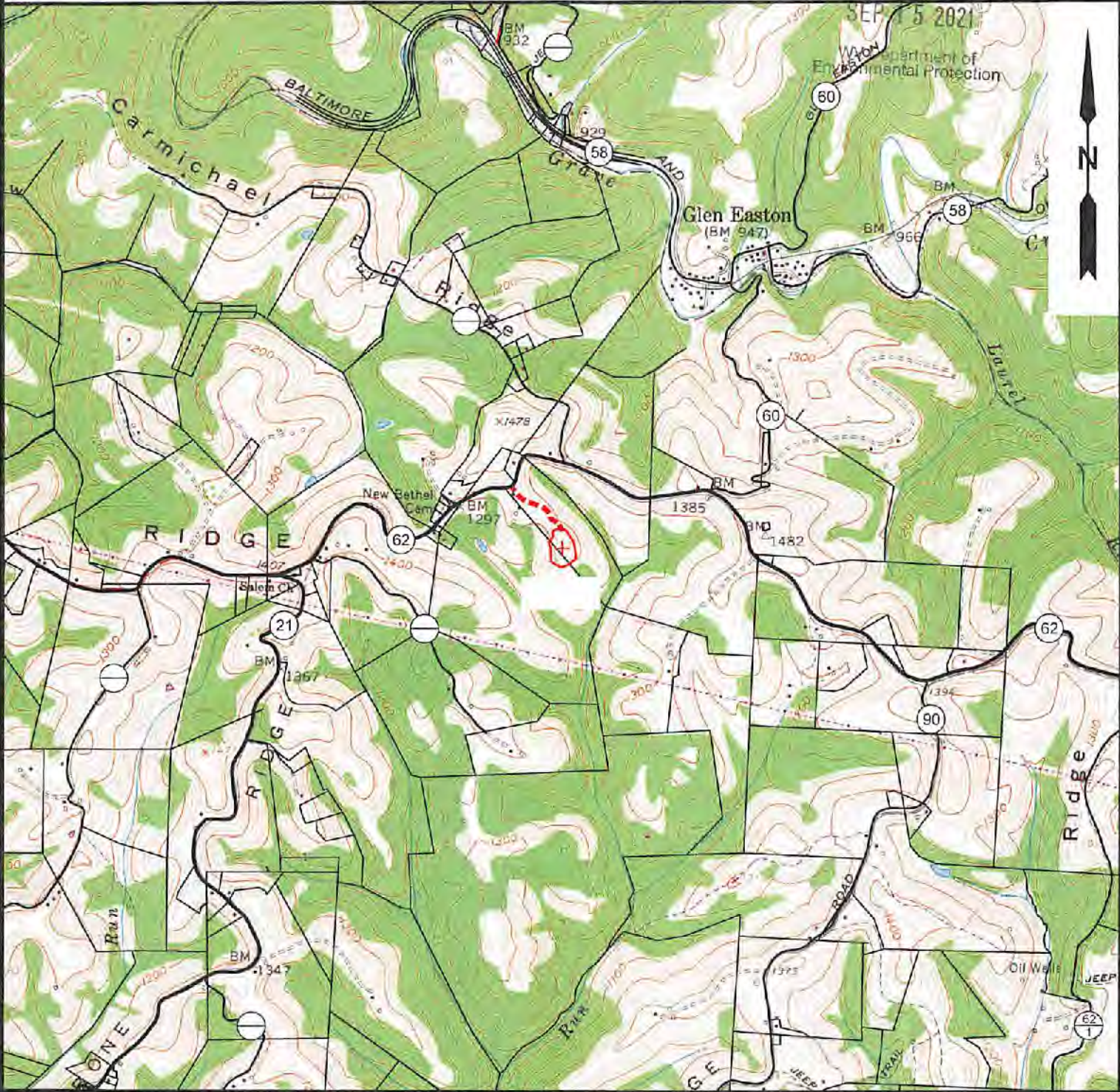
COUNTY NAME PERMIT

PROPOSED WILLETT S - 3HM

RECEIVED
Office of Oil and Gas

SEP 15 2021

WV Department of
Environmental Protection



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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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.258.5296
slswv.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	07/30/2021	1" = 2000'



TUG HILL
OPERATING
10/22/2021