

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

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

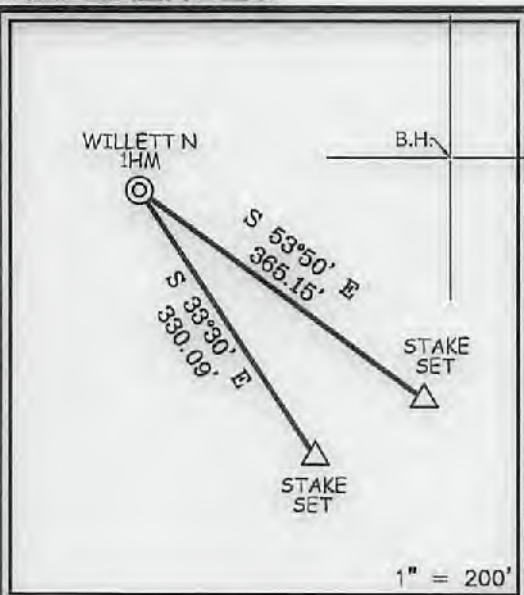
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 483,948.41 E. 1,643,786.07
 NAD'83 GEO. LAT-(N) 39.822945 LONG-(W) 80.656131
 NAD'83 UTM (M) N. 4,407,162.76 E. 529,428.23
LANDING POINT
 NAD'83 S.P.C.(FT) N. 482,726.2 E. 1,646,615.4
 NAD'83 GEO. LAT-(N) 39.819691 LONG-(W) 80.646003
 NAD'83 UTM (M) N. 4,407,804.9 E. 530,296.4
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 491,268.0 E. 1,641,784.1
 NAD'83 GEO. LAT-(N) 39.842968 LONG-(W) 80.663596
 NAD'83 UTM (M) N. 4,410,392.6 E. 523,781.0

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

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 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

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 DEWAINE 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

REFERENCES



NOTES ON SURVEY

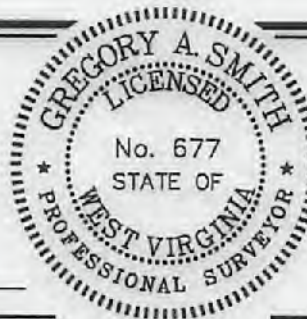
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'



12 Vanhorn Drive | P.O. Box 180 | Glenville, WV 26331 | 304.482.5634
 1412 Kenawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsmv.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 SEPTEMBER 24, 20 21
 OPERATORS WELL NO. WILLETT N 1HM
 API WELL NO. 47 - 051 - 02437
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8939P1HMR.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'
 WILLETT N 1HM-REV2

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 27.596±
 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: 18,325'

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

08/18/2022

10,837' B.H.

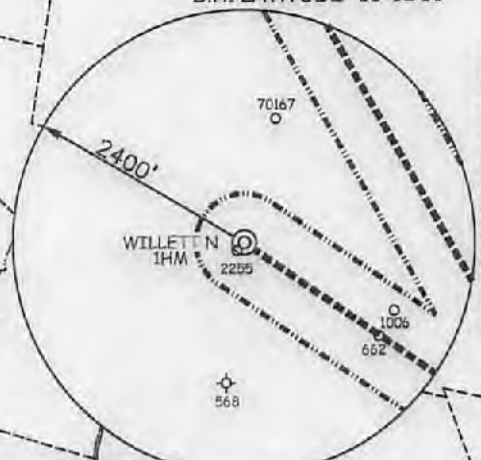
8,744' T.H.

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

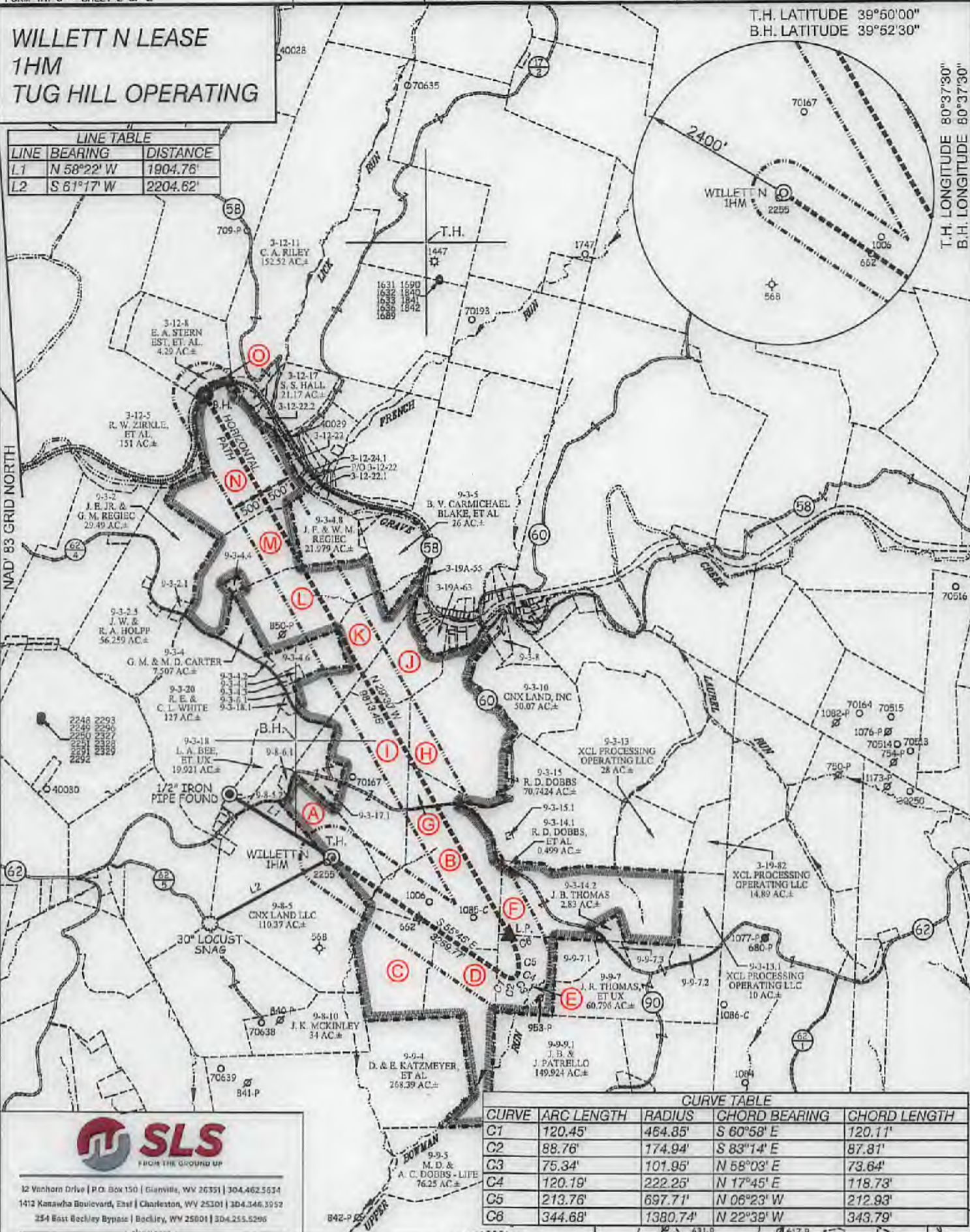
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°52'30"

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'	101.96'	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	344.68'	1380.74'	N 22°39' W	343.79'



32 Vanhorn Drive | P.O. Box 150 | Gianville, WV 26331 | 304.462.5334
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slaw.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD'83 S.P.C.(FT) N. 463,948.41 E. 1,843,786.07
NAD'83 GEO. LAT-(N) 39.822948 LONG-(W) 80.856131
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. 1,843,615.4
NAD'83 GEO. LAT-(N) 39.819801 LONG-(W) 80.848003
NAD'83 UTM (M) N. 4,407,804.9 E. 530,286.4

BOTTOM HOLE
NAD'83 S.P.C.(FT) N. 491,288.0 E. 1,841,784.1
NAD'83 GEO. LAT-(N) 39.842968 LONG-(W) 80.863596
NAD'83 UTM (M) N. 4,410,382.6 E. 528,781.0



(+) 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	00-00
SURFACE OWNER (SEE TABLE)	⊙
LEASE # (SEE WW-6A1)	(A)

SCALE 1" = 2000' FILE NO. 8939P1HMR.dwg
WILLETT N 1HM-REV2

DATE SEPTEMBER 8, 20 21
REVISED SEPTEMBER 24, 20 21

OPERATORS WELL NO. WILLETT N 1HM
API WELL NO. 47-051-02437
STATE COUNTY PERMIT

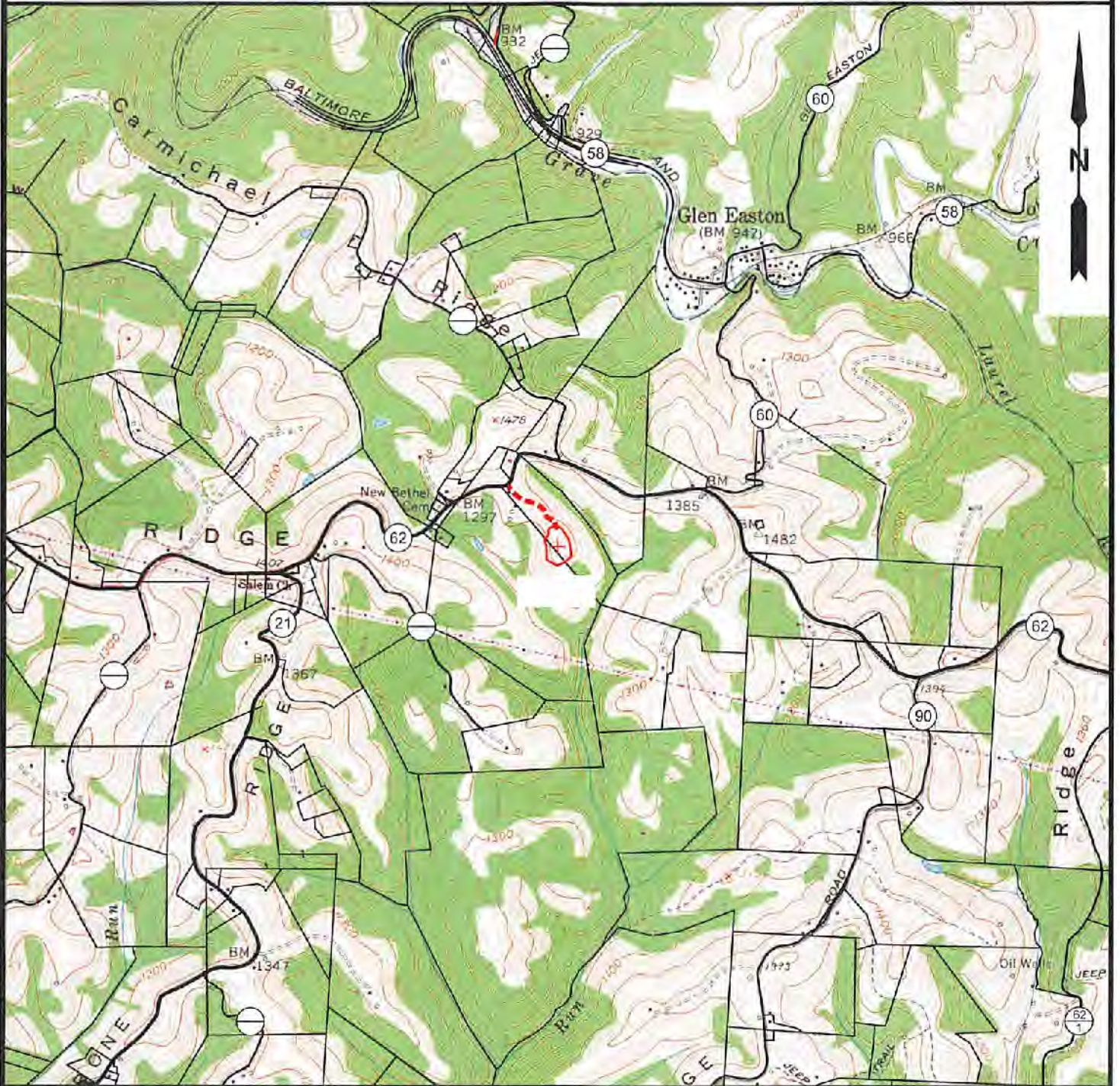
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

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

03/18/2022

PROPOSED WILLETT N - 1HM



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

LAT: 39.829865
LON: -80.573724
LOCATED: N 84°38'39" E AT 23,313.72' FROM THE CENTER OF WILLETT N WELL PAD LOCATION.



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281 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
sllswv.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
DRAWN BY		DATE	SCALE
K.G.M.		09/14/2021	1" = 2000'



TUG HILL
OPERATING

03/18/2022