

**HUDSON S
WELL 5HM
TUG HILL OPERATING**

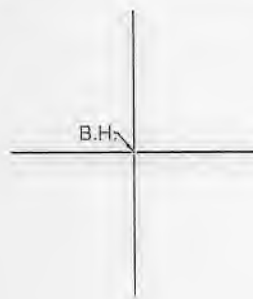
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

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

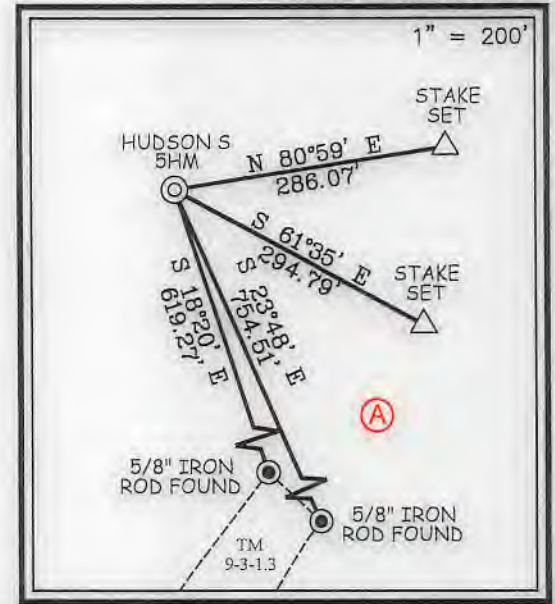
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.1	CONSOLIDATION COAL CO.	1.00
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-3-1.2	CONSOLIDATION COAL CO.	1.00
9-5-11.1	MARK H. FOX	2.619
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-8-1	CNX LAND CO. LLC	2.908
9-8-2	CNX LAND CO. LLC	6000 SQ. FT.
9-8-3	CHURCH OF CHRIST	LOT
9-8-4	DONALD M. & THERESA L. HARRIS	3.183
9-8-4.1	CNX LAND RESOURCES, INC.	0.333

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

NAD'83 S.P.C.(FT)	N. 486,126.41	E. 1,639,179.25
NAD'83 GEO.	LAT-(N) 39.828761	LONG-(W) 80.672633
NAD'83 UTM (M)	N. 4,408,802.91	E. 528,013.65
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 486,684.0	E. 1,639,194.9
NAD'83 GEO.	LAT-(N) 39.830292	LONG-(W) 80.672603
NAD'83 UTM (M)	N. 4,408,972.9	E. 528,015.6
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 480,900.0	E. 1,642,376.3
NAD'83 GEO.	LAT-(N) 39.814528	LONG-(W) 80.661010
NAD'83 UTM (M)	N. 4,407,226.9	E. 529,014.3



REFERENCES



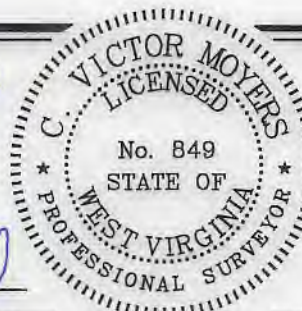
NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' 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.

6/25/19



P.S. *C. Victor Moyers*
849

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

DATE JUNE 14, 20 19

REVISED JUNE 25, 20 19

OPERATORS WELL NO. HUDSON S-5HM

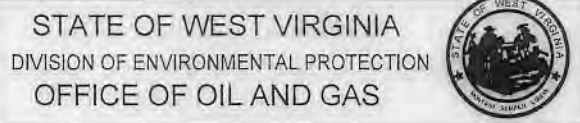
API WELL NO. 47 - 051 - 02291

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P5HMR.dwg

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

PROJECT NAME HUDSON S-5HM REV5



WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,366.20' PROPOSED = 1,344.81' WATERSHED GRAVE CREEK (HUC 10)

DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 106.935±

ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE 106.935±

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: 6,914' / TMD: 13,877'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS CT CORPORATION SYSTEM

FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD

CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**HUDSON S
WELL 5HM
TUG HILL OPERATING**

10,115' B.H.

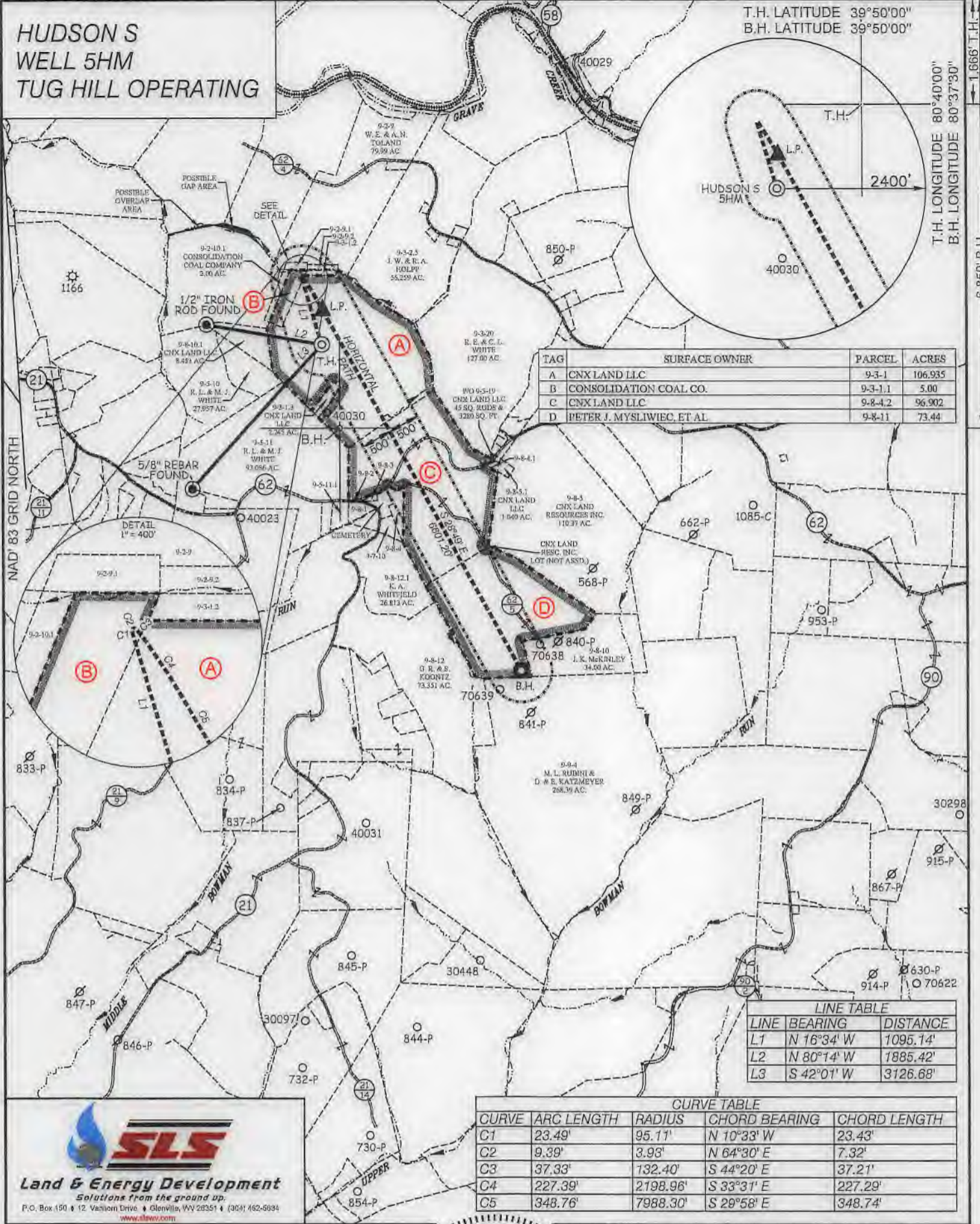
1,676' T.H.

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

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

1,666' T.H.

6,850' B.H.



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-3-1.1	5.00
C	CNX LAND LLC	9-8-4.2	96.902
D	PETER J. MYSLIWIEC, ET AL	9-8-11	73.44

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 16°34' W	1095.14'
L2	N 80°14' W	1885.42'
L3	S 42°01' W	3126.68'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	23.49'	95.11'	N 10°33' W	23.43'
C2	9.39'	3.93'	N 64°30' E	7.32'
C3	37.33'	132.40'	S 44°20' E	37.21'
C4	227.39'	2198.96'	S 33°31' E	227.29'
C5	348.76'	7988.30'	S 29°58' E	348.74'

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12. Vashon Drive • Glenville, WV 26031 • (304) 462-6934
www.slsco.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 486,126.41 E. 1,839,179.25
 NAD'83 GEO. LAT-(N) 39.828761 LONG-(W) 80.672633
 NAD'83 UTM (M) N. 4,408,802.91 E. 528,018.65
LANDING POINT
 NAD'83 S.P.C.(FT) N. 486,694.0 E. 1,639,194.9
 NAD'83 GEO. LAT-(N) 39.830292 LONG-(W) 80.672603
 NAD'83 UTM (M) N. 4,408,972.9 E. 528,015.6
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 480,900.0 E. 1,642,376.3
 NAD'83 GEO. LAT-(N) 39.814528 LONG-(W) 80.661010
 NAD'83 UTM (M) N. 4,407,226.9 E. 529,014.3



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 P.S. 849 *C. Victor Moyers*

SCALE 1" = 2000' FILE NO. 8911P5HMR.dwg
 HUDSON S-5HM REV5
 DATE JUNE 14 20 19
 REVISED JUNE 25 20 19
 OPERATORS WELL NO. HUDSON S-5HM
 API WELL NO. 47 051 02291
 NO. STATE COUNTY PERMIT

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

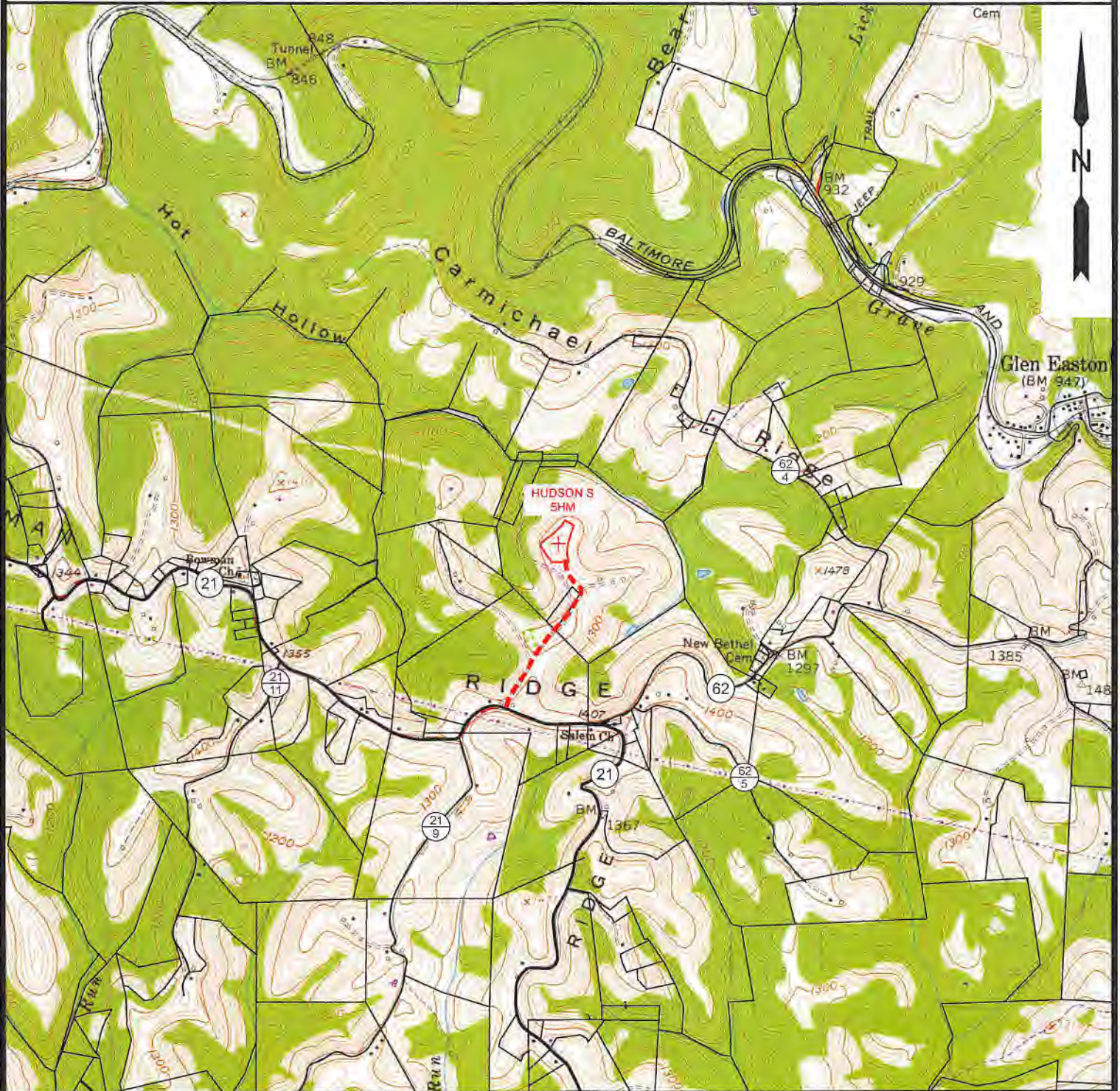
LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

COUNTY NAME PERMIT

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
 FORT WORTH, TX 76107 CHARLESTON, WV 25313

PROPOSED HUDSON S - 5HM



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

LAT: 39.829865
LON: -80.573724
LOCATED: N 89°55'26" E AT 27,779.45' FROM THE CENTER OF HUDSON S WELL PAD LOCATION.



SLS
Land & Energy Development

Solutions from the ground up.

P.O. Box 150 • 12 Vanham Drive • Glenville, WV 26351 • (304) 462-5634
www.slsww.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.	8911	06/14/2019	1" = 200'



TUG HILL
OPERATING