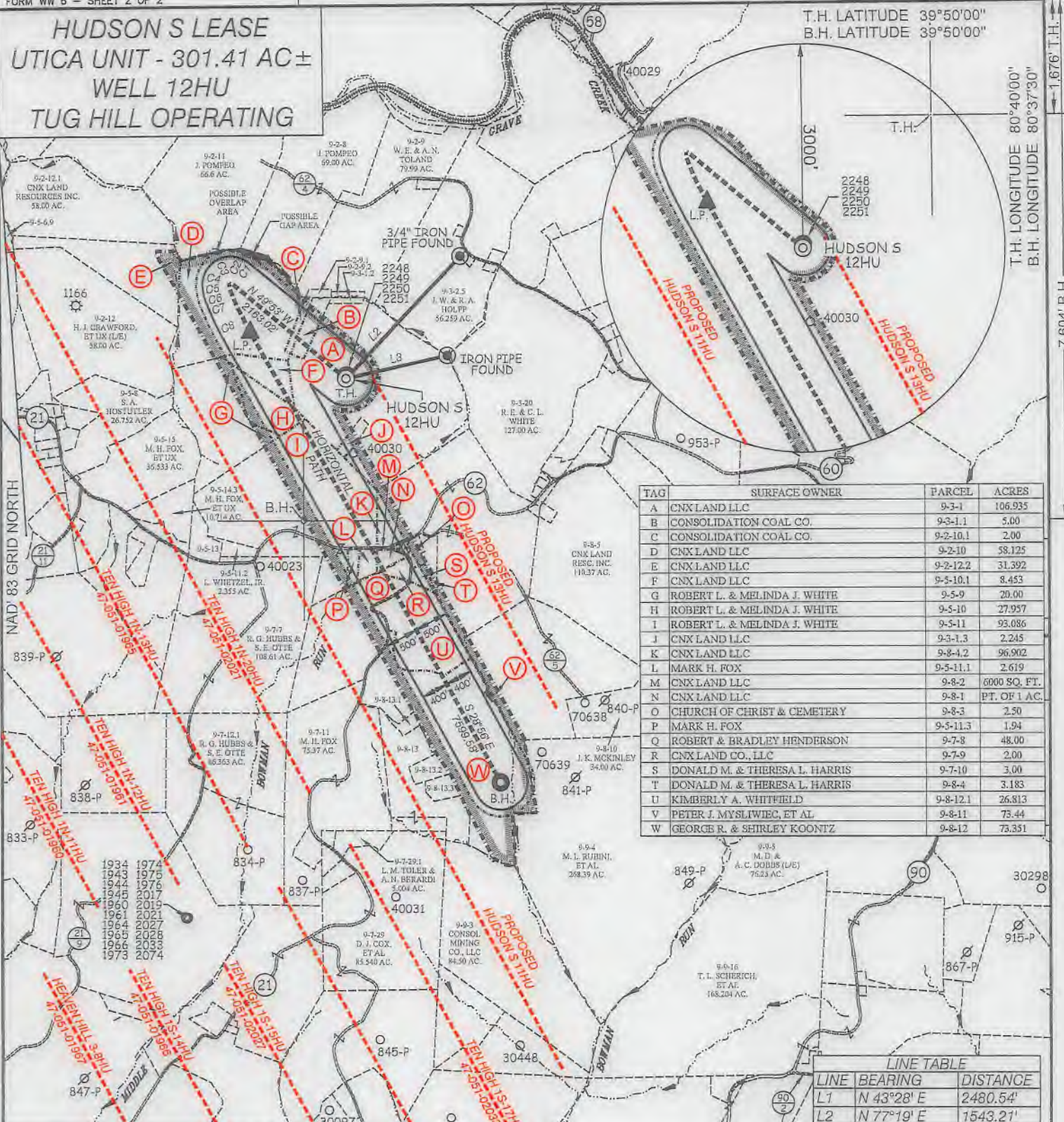


**HUDSON S LEASE
UTICA UNIT - 301.41 AC±
WELL 12HU
TUG HILL OPERATING**



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	CONSOLIDATION COAL CO.	9-2-10.1	2.00
D	CNX LAND LLC	9-2-10	58.125
E	CNX LAND LLC	9-2-12.2	31.392
F	CNX LAND LLC	9-5-10.1	8.453
G	ROBERT L. & MELINDA J. WHITE	9-5-9	20.00
H	ROBERT L. & MELINDA J. WHITE	9-5-10	27.957
I	ROBERT L. & MELINDA J. WHITE	9-5-11	93.086
J	CNX LAND LLC	9-3-1.3	2.245
K	CNX LAND LLC	9-8-4.2	96.902
L	MARK H. FOX	9-5-11.1	2.619
M	CNX LAND LLC	9-8-2	6000 SQ. FT.
N	CNX LAND LLC	9-8-1	PT. OF 1 AC.
O	CHURCH OF CHRIST & CEMETERY	9-8-3	2.50
P	MARK H. FOX	9-5-11.3	1.94
Q	ROBERT & BRADLEY HENDERSON	9-7-8	48.00
R	CNX LAND CO., LLC	9-7-9	2.00
S	DONALD M. & THERESA L. HARRIS	9-7-10	3.00
T	DONALD M. & THERESA L. HARRIS	9-8-4	3.183
U	KIMBERLY A. WHITFIELD	9-8-12.1	26.813
V	PETER J. MYSLIWIAC, ET AL	9-8-11	73.44
W	GEORGE R. & SHIRLEY KOONTZ	9-8-12	73.351

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 43°28' E	2480.54'
L2	N 77°19' E	1543.21'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	25.93'	174.19'	N 53°29' W	25.90'
C2	19.32'	63.78'	N 66°06' W	19.24'
C3	22.10'	15.23'	S 65°08' W	20.21'
C4	22.95'	51.25'	S 08°55' W	22.76'
C5	45.90'	266.81'	S 08°40' E	45.84'
C6	66.56'	815.36'	S 16°18' E	66.55'
C7	229.86'	2276.09'	S 22°13' E	229.76'
C8	415.82'	5935.30'	S 27°03' E	415.74'

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhook Drive • Glenville, WV 26351 • (304) 462-5934
www.slsrv.com

P.S. 849 *C. Victor Moyers*

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

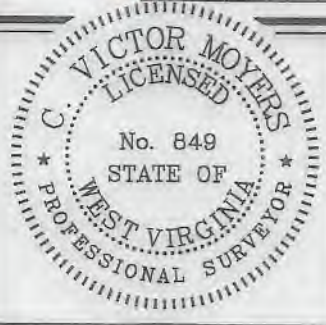
NAD'83 S.P.C.(FT)	N. 486,116.50	E. 1,639,157.22
NAD'83 GEO.	LAT-(N) 39.826733	LONG-(W) 80.672711
NAD'83 UTM (M)	N. 4,408,799.78	E. 529,006.99

LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,810.2	E. 1,637,744.2
NAD'83 GEO.	LAT-(N) 39.830587	LONG-(W) 80.677774
NAD'83 UTM (M)	N. 4,409,003.9	E. 527,573.0

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 480,158.7	E. 1,641,419.9
NAD'83 GEO.	LAT-(N) 39.812459	LONG-(W) 80.664380
NAD'83 UTM (M)	N. 4,406,996.2	E. 528,726.7



SCALE 1" = 2000' FILE NO. 8911P12HUR.dwg
HUDSON S-12HU REV4
DATE AUGUST 23 20 19
REVISED OCTOBER 22 20 19
OPERATORS WELL NO. HUDSON S-12HU
API WELL NO. 47-051-02292 H6A
NO. STATE COUNTY PERMIT

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

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

LEGEND

- UNIT BOUNDARY
- LEASED TRACTS INSIDE
- UNIT BOUNDARY
- SURFACE LINE
- PROPOSED UTICA
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

**HUDSON S LEASE
UTICA UNIT - 301.41 AC±
WELL 12HU
TUG HILL OPERATING**

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

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
9-5-6.9	CNX LAND CO. LLC	22.39
9-5-13	SHELLY ANN JORDAN	5.51
9-8-13	LARRY LEE CONKLE SR ET UX	24.03
9-8-13.1	LARRY LEE CONKLE SR ET UX	1.666
9-8-13.2	TERESA & MICHAEL HUGHES	3.582
9-8-13.3	CASSANDRA A. & JAMES R. DOWNES	3.22

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

NAD'83 S.P.C.(FT)	N. 486,116.50	E. 1,639,157.22
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LANDING POINT		
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NAD'83 GEO.	LAT-(N) 39.812459	LONG-(W) 80.664380
NAD'83 UTM (M)	N. 4,406,996.2	E. 528,726.7

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"
1,676' T.H.
7,604' B.H.



REFERENCES

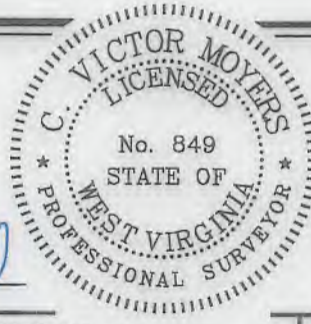


NOTES ON SURVEY

1. 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.
2. WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
3. PROPOSED LATERAL OR TOP HOLE OF HUDSON S-12HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED HUDSON S-11HU, PROPOSED HUDSON S-13HU, TEN HIGH 1N-20HU (47-051-02021), TEN HIGH 1S-17HU (47-051-02033).



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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 23, 20 19
REVISED OCTOBER 22, 20 19
OPERATORS WELL NO. HUDSON S-12HU
API WELL NO. 47-051-02292
STATE COUNTY PERMIT H6A 22292

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P12HUR.dwg
HUDSON S-12HU REV4
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 INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION STORAGE ___ DEEP SHALLOW ___

LOCATION: GROUND = 1,370.20' ELEVATION 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: 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 POINT PLEASANT ESTIMATED DEPTH TVD: 11,923' / TMD: 20,044'

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

COUNTY NAME
PERMIT