

6,874' B.H.

3,986 T.H.

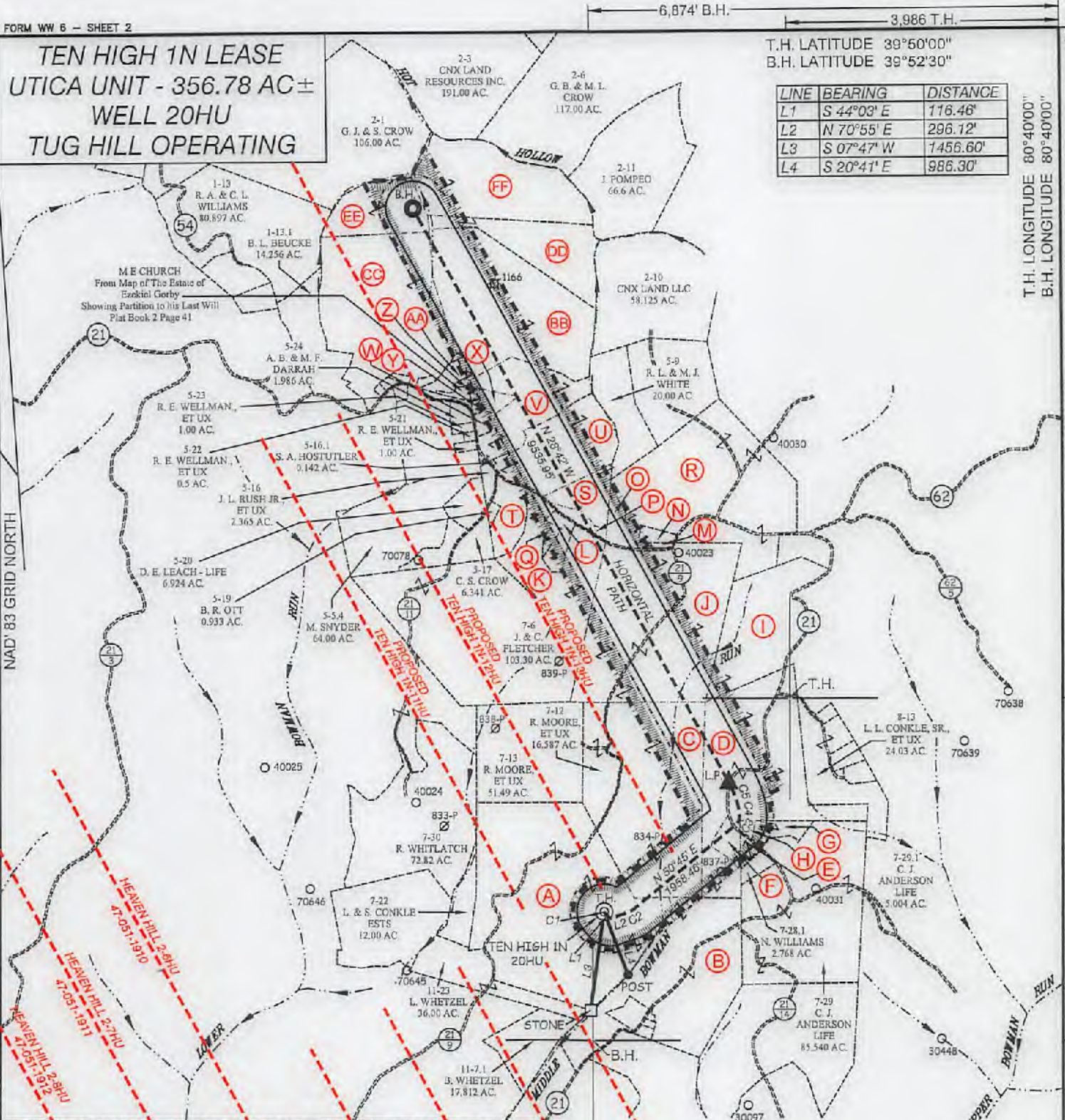
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°52'30"

**TEN HIGH 1N LEASE
UTICA UNIT - 356.78 AC ±
WELL 20HU
TUG HILL OPERATING**

LINE	BEARING	DISTANCE
L1	S 44°08' E	116.46'
L2	N 70°55' E	296.12'
L3	S 07°47' W	1456.60'
L4	S 20°41' E	986.30'

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

NAD'83 GRID NORTH



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	17.28'	27.68'	S 25°53' E	17.00'
C2	68.27'	219.64'	N 59°33' E	67.99'
C3	71.09'	110.60'	N 26°49' E	69.88'
C4	216.64'	499.69'	N 04°55' W	214.95'
C5	347.77'	1484.78'	N 22°20' W	346.97'

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www.slsurveys.com

P.S. 677

Gregory A. Smith

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

NAD'83 S.P.C.(FT)	N. 476,129.43	E. 1,636,765.22
NAD'83 GEO.	LAT-(N) 39.806722	LONG-(W) 80.680854
NAD'83 UTM (M)	N. 4,406,354.29	E. 627,318.02
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 479,999.3	E. 1,638,589.9
NAD'83 GEO.	LAT-(N) 39.811918	LONG-(W) 80.674446
NAD'83 UTM (M)	N. 4,406,933.0	E. 627,865.3
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 488,962.3	E. 1,634,009.7
NAD'83 GEO.	LAT-(N) 39.834712	LONG-(W) 80.691144
NAD'83 UTM (M)	N. 4,409,467.8	E. 626,427.3



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

LEGEND

- UNIT BOUNDARY
- LEASED TRACTS INSIDE UNIT BOUNDARY
- SURFACE LINE
- DEED WELL LATERAL WITHIN 3000'
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE-SHEET 1)
- LEASE # (SEE ADDITIONAL SHEETS)

SCALE 1" = 2000' FILE NO. 8655P20HUR2.dwg
DATE JANUARY 19 20 18
REVISED FEBRUARY 20 & MARCH 9 20 18
OPERATORS WELL NO. TEN HIGH 1N-20HU
API WELL NO. 47-051-02021-MA
NO. STATE COUNTY PERMIT

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

07/20/2018

WELL OPERATOR TUG HILL OPERATING, LLC	DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 600 FORT WORTH, TX 76107	ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME PERMIT

**TEN HIGH 1N LEASE
UTICA UNIT - 356.78 AC±
WELL 20HU
TUG HILL OPERATING**

NOTES ON SURVEY

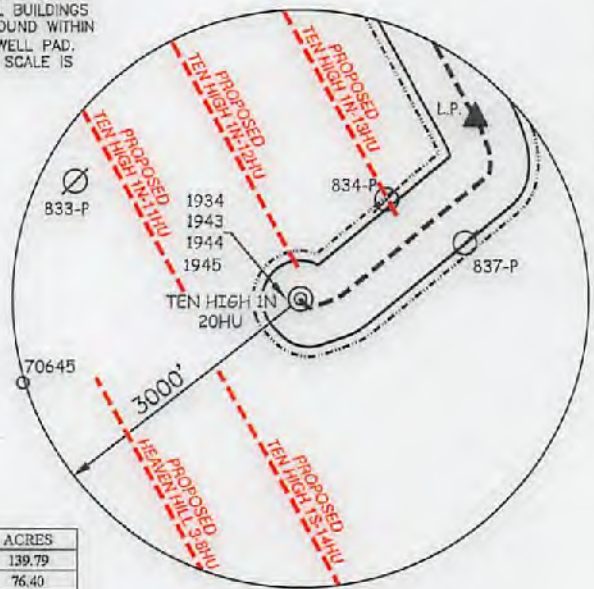
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

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

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

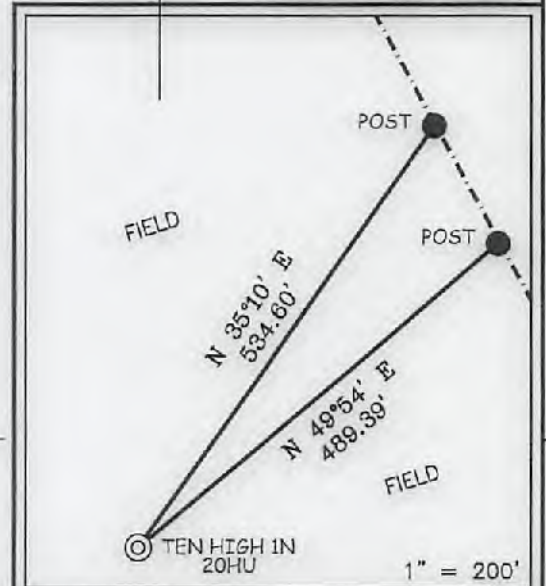
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

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NAD83 UTM (M)	N. 4,406,933.0	E. 527,895.3
BOTTOM HOLE		
NAD83 S.P.C.(FT)	N. 488,362.3	E. 1,634,009.7
NAD83 GEO.	LAT-(N) 39.834712	LONG-(W) 80.691144
NAD83 UTM (M)	N. 4,409,457.8	E. 526,427.3



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
C	ROBERT G. HUBBS & SCARLETTE E. OTTE	9-7-12.1	86.363
D	MARK H. FOX	9-7-11	75.37
E	VICTOR & CLAIRE CAMERON	9-7-28	1.983
F	W.V. DEPT. OF HIGHWAYS	9-7-11.1	3.63
G	CAROL J. ANDERSON - LIFE	9-7-29.1	5.004
H	CAROL J. ANDERSON - LIFE	9-7-27	1.006
I	ROBERT HENDERSON, ET AL	9-7-8	48.00
J	ROBERT GLENN HUBBS, ET AL	9-7-7	108.61
K	DAVID L. HOLMES, ET UX	9-5-14	37.345
L	DAVID L. HOLMES, ET UX	9-5-14.2	4.995
M	LARRY WHETZEL, JR.	9-5-12	1.00
N	LARRY WHETZEL, JR.	9-5-11.2	2.355
O	SHELLY ANN JORDAN, GEORGIA JORDAN LIFE ESTATE	9-5-13	5.51
P	SAVANNA WEST, ET AL.	9-5-14.1	2.819
Q	DAVID L. HOLMES, ET UX	9-5-14.5	1.66
R	ROBERT L. & MELINDA J. WHITE	9-5-11	93.086
S	MARK H. FOX, ET UX	9-5-14.3	10.714
T	BETTY R. OTT	9-5-14.4	10.501
U	MARK H. FOX, ET UX	9-5-15	36.533
V	SCOTT A. HOSTUTLER	9-5-8	26.752
W	MISTY CROW WITH ROBERT & ELSIE WHETZEL (LIFE ESTATE)	9-5-8.2	1.973
X	ISAAC MCKINNEY, ET UX	9-5-8.1	2.875
Y	YEAGER ADDITION TO BOWMAN RIDGE CEMETERY FROM PLAT OF SURVEY DB 509-374	NOT ASSD	NOT ASSD
Z	ME CHURCH	9-5-7	81.5 POLES (6 AC ASSD)
AA	JON B. CRAWFORD	9-5-6.1	4.679
BB	HARRY J. CRAWFORD, ET UX (LIFE ESTATE)	9-2-12	80.718
CC	NANCY L. SNYDER (LIFE ESTATE)	9-5-6	82.858
DD	CNX LAND LLC	9-2-12.2	31.392
EE	CNX LAND LLC	9-5-6.9	22.392
FF	CNX LAND RESOURCES INC.	9-2-12.1	56.00

REFERENCES



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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 JANUARY 19, 20 18
REVISED FEBRUARY 20 & MARCH 9, 20 18
OPERATORS WELL NO. TEN HIGH 1N-20HU
API WELL NO. 47-051-02021
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P20HUR2.dwg
SCALE 1" = 2000'

HORIZONTAL & VERTICAL 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: GROUND = 1,319.90' ELEVATION PROPOSED = 1,310.06' WATERSHED MIDDLE BOWMAN RUN OF FISH CREEK (HUC 10) DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER LAWRENCE & SHIRLEY CONKLE ESTS ACREAGE 139.79±
ROYALTY OWNER ANDY PAUL & JACKIE KUHN, ET AL - SEE ADDITIONAL SHEETS ACREAGE 139.79±

PROPOSED WORK: LEASE NO. SEE ADDITIONAL SHEETS
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: 11,924' / TMD: 22,002'

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

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07/20/2018