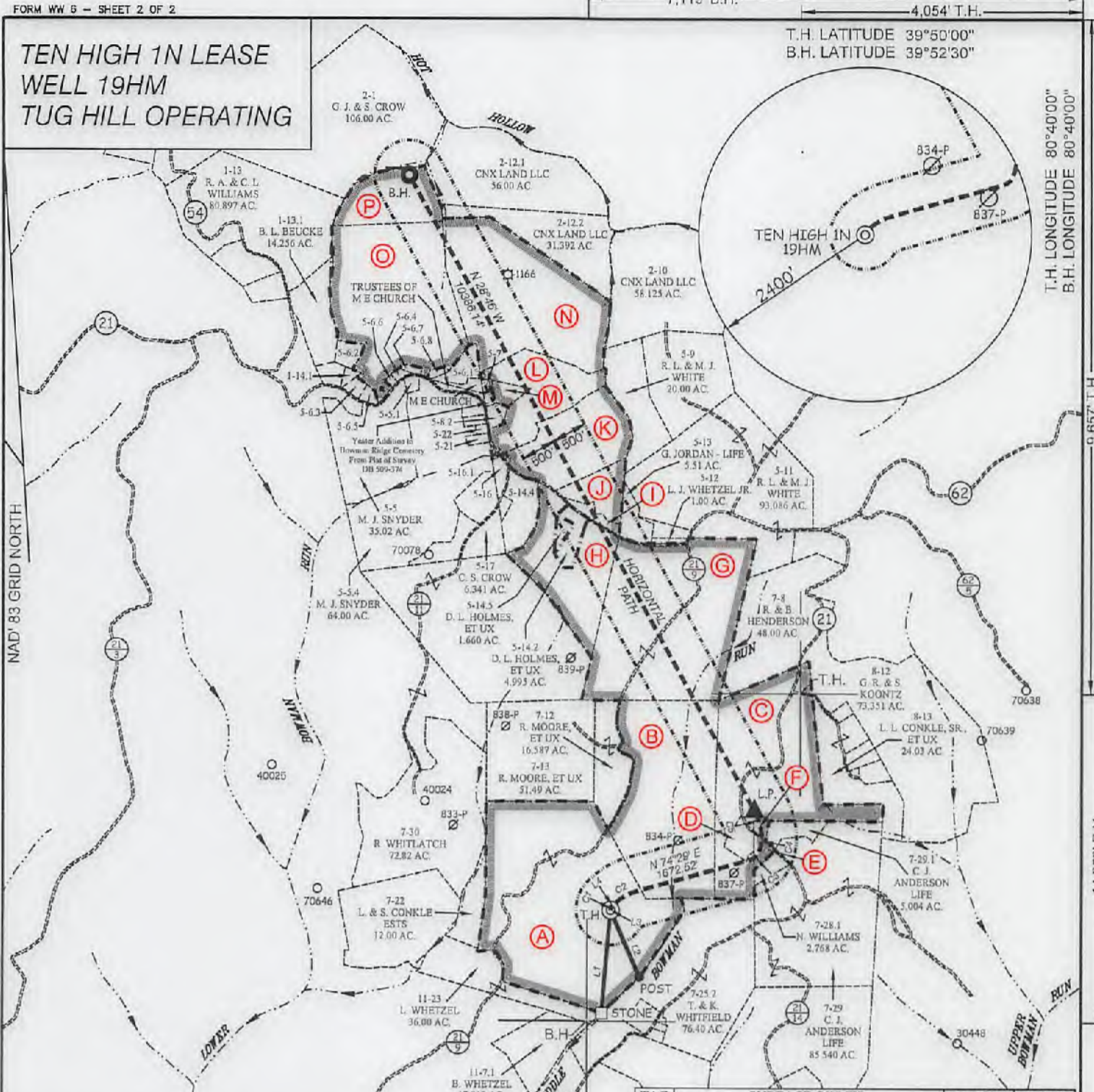


**TEN HIGH 1N LEASE  
WELL 19HM  
TUG HILL OPERATING**

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

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	20.08'	29.13'	N 22°49' E	19.68'
C2	383.96'	738.14'	N 60°43' E	379.64'
C3	189.89'	230.36'	N 48°15' E	184.56'
C4	303.27'	499.13'	N 05°51' E	298.63'
C5	294.90'	889.54'	N 19°21' W	293.56'

TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	ROBERT G. & SCARLETT HUBBS	9-7-12.1	86.363
C	MARK H. FOX	9-7-11	75.37
D	WEST VIRGINIA DEPT. OF HIGHWAYS	9-7-11.1	3.63
E	VICTOR & CLAIRE CAMERON	9-7-28	1.983
F	CAROL J. ANDERSON - LIFE	9-7-27	1.005
G	ROBERT GLENN HUBBS, ET AL	9-7-7	108.61
H	DAVID L. HOLMES, ET UX	9-5-14	37.345
I	SAVANNA N. & MATTHEW WEST	9-5-14.1	2.819
J	MARK H. FOX, ET UX	9-5-14.3	10.714
K	MARK H. FOX, ET UX	9-5-15	36.533
L	SCOTT A. HOSTUTLER	9-5-8	26.752
M	ISAAC LEE MCKINNEY, ET UX	9-5-8.1	2.875
N	HARRY J. CRAWFORD, ET UX - LIFE	9-2-12	168.11
O	NANCY L. SNYDER (LIFE ESTATE)	9-5-6	82.858
P	CNX LAND LLC	9-5-6.9	22.392

LINE	BEARING	DISTANCE
L1	S 05°00' W	1487.08'
L2	S 23°25' E	1047.25'
L3	N 00°57' E	13.97'
L3	N 41°22' E	72.17'

**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26031 • (304) 402-6634  
www.slsurveys.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'83 S.P.C.(FT) N. 478,167.69 E. 1,636,097.39  
 NAD'83 GEO. LAT-(N) 39.808824 LONG-(W) 80.661097  
 NAD'83 UTM (M) N. 4,406,365.60 E. 527,298.06  
**LANDING POINT**  
 NAD'83 S.P.C.(FT) N. 479,584.2 E. 1,639,766.4  
 NAD'83 GEO. LAT-(N) 39.810767 LONG-(W) 80.673799  
 NAD'83 UTM (M) N. 4,406,807.7 E. 527,921.2  
**BOTTOM HOLE**  
 NAD'83 S.P.C.(FT) N. 488,688.6 E. 1,633,766.3  
 NAD'83 GEO. LAT-(N) 39.835599 LONG-(W) 80.692019  
 NAD'83 UTM (M) N. 4,409,555.9 E. 526,352.1



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

P.S. 677 *Gregory A. Smith*

SCALE 1" = 2000' FILE NO. 8656P19HMR.dwg  
 DATE JANUARY 19, 20 18  
 REVISED FEBRUARY 19, 20 18  
 OPERATORS WELL NO. TEN HIGH 1N-19HM  
 API WELL NO. 47  
 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-8A1)

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

9,657' T.H. 14,353' B.H. COUNTY NAME PERMIT

06/01/2018



**TEN HIGH 1N LEASE  
WELL 19HM  
TUG HILL OPERATING**

7,119' B.H. 4,054' T.H.

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

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

9,657' T.H.

14,353' B.H.

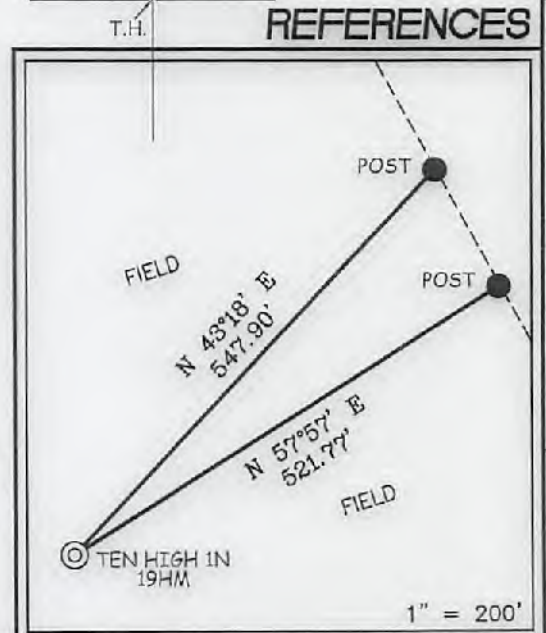
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 478,167.89	E. 1,836,697.36
NAD'83 GEO.	LAT-(N) 39.806824	LONG-(W) 80.881097
NAD'83 UTM (M)	N. 4,406,365.60	E. 527,298.06
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 479,584.2	E. 1,838,766.4
NAD'83 GEO.	LAT-(N) 39.810767	LONG-(W) 80.873798
NAD'83 UTM (M)	N. 4,406,807.7	E. 527,921.2
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 488,688.6	E. 1,833,768.3
NAD'83 GEO.	LAT-(N) 39.835599	LONG-(W) 80.692019
NAD'83 UTM (M)	N. 4,409,555.9	E. 526,352.1

MAP/PARCEL	ADJOINING SURFACE OWNER LIST (SEE SHEET 2)	ACRES
9-1-14.1	ALICE J. & DOUGLAS J. MARTIN	0.905
9-5-1.1	DAVID M. TOLER, ET UX	0.985
9-5-5.1	JON B. CRAWFORD	4.679
9-5-6.2	MICHAEL JOSEPH SNYDER	2.82
9-5-6.3	DEUTSCHE BANK NATIONAL TRUST CO.	1.391
9-5-6.4	NANCY L. SNYDER	0.694
9-5-6.5	LINDA GORBY DELBERT	1.087
9-5-6.6	NANCY L. SNYDER	0.420
9-5-6.7	NANCY L. SNYDER	0.678
9-5-6.8	NANCY L. SNYDER	0.691
9-5-7	M E CHURCH	81.5 POLES 6 AC. (ASSD)
9-5-8.2	MISTY CROW WITH ROBERT & ELSIE WHETZEL (LIFE ESTATE)	1.973
9-5-14.4	BETTY R. OTT	10.501
9-5-16	LARRY L. CONKLE, JR.	2.365
9-5-16.1	SCOTT A. HOSTUTLER	0.142
9-5-21	RALPH E. WELLMAN, ET UX	1.00
9-5-22	RALPH E. WELLMAN, ET UX	0.5

**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 & TOPD 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 JANUARY 19, 20 18  
 REVISED FEBRUARY 19, 20 18  
 OPERATORS WELL NO. TEN HIGH 1N-19HM  
 API WELL NO. 47 - 051 - 02017 **H6A**  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P19HMR.dwg  
 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: GROUND = 1,321.20' ELEVATION PROPOSED = 1,310.08' 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 - WW-6A1 ACREAGE 139.79±

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 MARCELLUS  
 ESTIMATED DEPTH TVD: 6,865' / TMD: 18,312'

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

COUNTY NAME MARSHALL PERMIT 06/01/2018