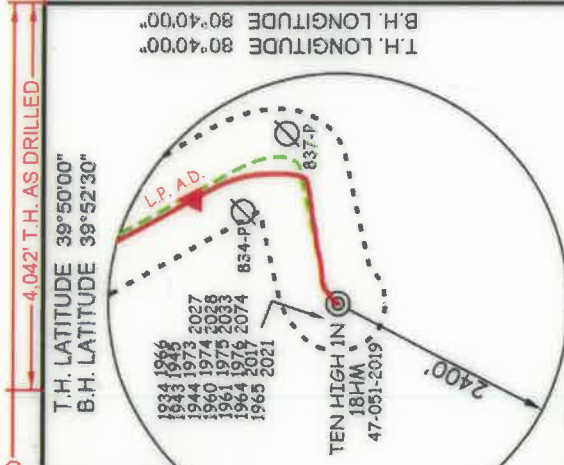


**TEN HIGH 1N LEASE  
WELL 18HM  
TUG HILL OPERATING**

LINE	BEARING	DISTANCE
L1	N 50°57' E	147.37'
L2	N 77°35' E	1074.67'
L3	S 05°28' W	1486.22'
L4	S 22°52' E	1039.74'

**LEGEND**  
— AS DRILLED  
- - - PROPOSED



**AS DRILLED COORDINATES FOR WELL NO. 18HM**

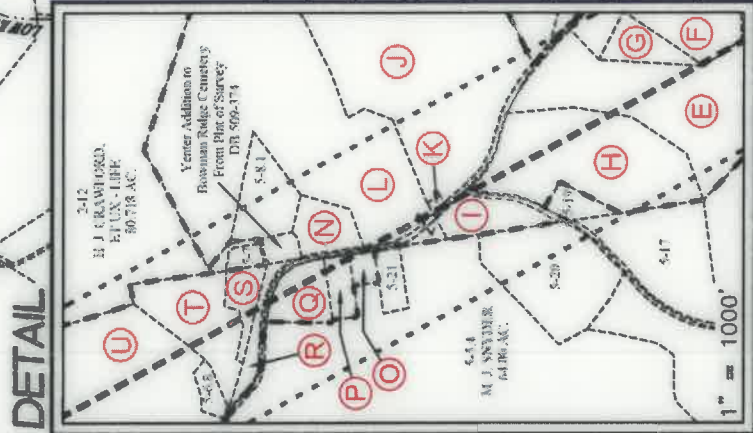
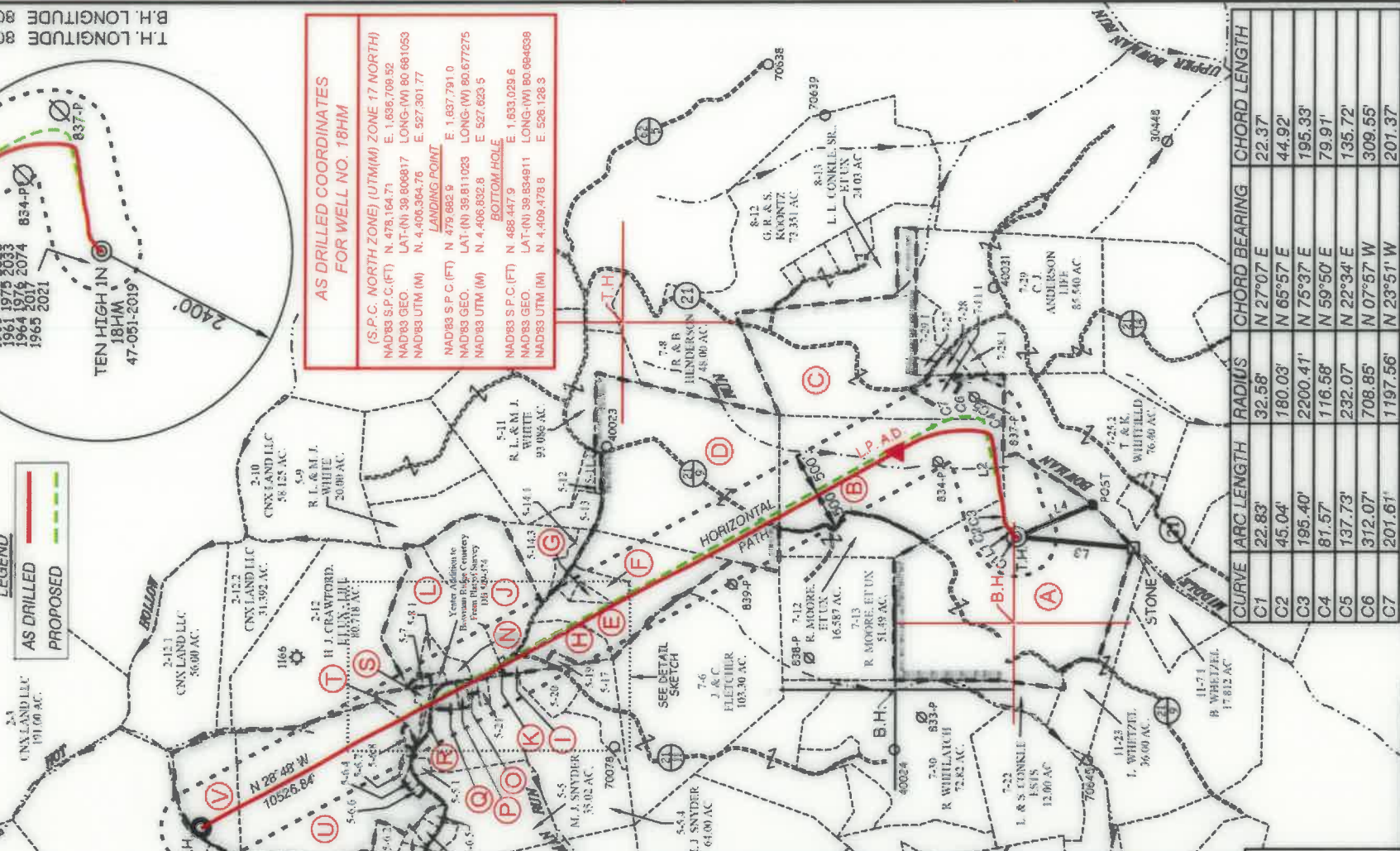
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD83 S.P.C.(FT) N. 478,164.71 E. 1,636,709.52  
 NAD83 GEO. LAT.(N) 39.806817 LONG.(W) 80.681053  
 NAD83 UTM (M) N. 4,406,364.76 E. 527,301.77

**LANDING POINT**  
 NAD83 S.P.C.(FT) N. 479,893.9 E. 1,637,791.0  
 NAD83 GEO. LAT.(N) 39.811023 LONG.(W) 80.677275  
 NAD83 UTM (M) N. 4,406,892.8 E. 527,829.5

**BOTTOM HOLE**  
 NAD83 S.P.C.(FT) N. 488,447.9 E. 1,633,029.6  
 NAD83 GEO. LAT.(N) 39.834911 LONG.(W) 80.664039  
 NAD83 UTM (M) N. 4,409,479.8 E. 526,128.3

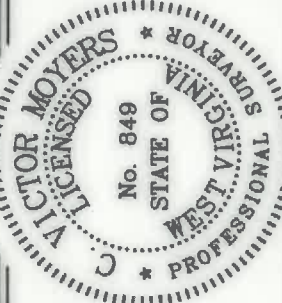
T.H. LATITUDE 39°50'00"  
 B.H. LATITUDE 39°52'30"  
 T.H. LONGITUDE 80°40'00"  
 B.H. LONGITUDE 80°40'00"

7.855' B.H. AS DRILLED  
 4.042' T.H. AS DRILLED  
 14,603' B.H. AS DRILLED  
 9,659' T.H. AS DRILLED



1100 University Drive, Box 150 | Glenville, WV 26031 | 504-482-3834  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 504-346-1952  
 254 East Buckley Avenue | Buckley, WV 24801 | 504-335-2296  
 sls.com

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	22.83'	32.58'	N 27°07' E	22.37'
C2	45.04'	180.03'	N 65°57' E	44.92'
C3	195.40'	2200.41'	N 75°37' E	195.33'
C4	81.57'	116.58'	N 59°50' E	79.91'
C5	137.73'	232.07'	N 22°34' E	135.72'
C6	312.07'	708.85'	N 07°57' W	309.55'
C7	201.61'	1197.56'	N 23°51' W	201.37'



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

P.S. 849  
*C. Victor Moyers*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD83 S.P.C.(FT) N. 478,164.71 E. 1,636,709.52  
 NAD83 GEO. LAT.(N) 39.806817 LONG.(W) 80.681053  
 NAD83 UTM (M) N. 4,406,364.76 E. 527,301.77

**LANDING POINT**  
 NAD83 S.P.C.(FT) N. 479,227.6 E. 1,636,106.3  
 NAD83 GEO. LAT.(N) 39.809785 LONG.(W) 80.678132  
 NAD83 UTM (M) N. 4,406,695.7 E. 527,721.9

**BOTTOM HOLE**  
 NAD83 S.P.C.(FT) N. 488,451.8 E. 1,633,033.8  
 NAD83 GEO. LAT.(N) 39.834292 LONG.(W) 80.664623  
 NAD83 UTM (M) N. 4,409,480.0 E. 526,128.6

SCALE 1" = 2000' FILE NO. 8655P18HMADR.dwg

DATE JANUARY 17, 2019  
 REVISED MARCH 24, 2020

OPERATORS WELL NO. TEN HIGH 1N-18HM  
 API WELL NO. 47-051-2019  
 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)

COUNTY NAME PERMIT

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

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



**TEN HIGH 1N LEASE  
WELL 18HM  
TUG HILL OPERATING**

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	ROBERT GLENN HUBBS, ET AL.	9-7-7	108.61
F	DAVID L. HOLMES, ET UX	9-5-14	37.345
G	DAVID L. HOLMES, ET UX	9-5-14.2	4.995
H	BELTY R. OIT	9-5-14.5	1.66
I	LARRY L. CONKLE, JR	9-5-16	2.365
J	MARK H. FOX, ET UX	9-5-15	36.533
K	SCOTT A. HOSTUTLER	9-5-16.1	0.142
L	SCOTT A. HOSTUTLER	9-5-8	26.752
N	MISTY CROW WITH ROBERT & ELSIE WHEITZEL (LIFE ESTATE)	9-5-8.2	1.973
O	RALPH E. WELLMAN, ET UX	9-5-22	0.5
P	RALPH E. WELLMAN, ET UX	9-5-23	1.00
Q	ALAN & MARCELLA DARRAH	9-5-24	1.985
R	IRL STILES OF M.F. CHERCH	NOT ASSD	1.00
S	M.F. CHERCH FROM THE MAP OF THE ESTATE OF EZEKIAL GORBY SHOWING PARTITION TO HIS LAST WILL - PLAT BK. 2	NOT ASSD	NOT ASSD
T	JOHN B. CRAWFORD	9-5-6.1	4.679
U	NANCY L. SNYDER (LIFE ESTATE)	9-5-6	82.838
V	UNA LAND LLC	9-5-6.9	22.392

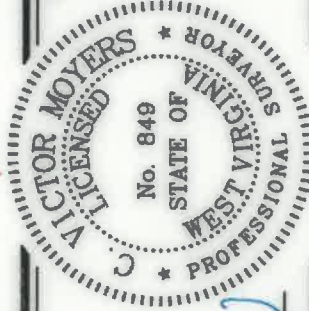
MAP PARCEL	ADJOINING SURFACE OWNER LIST (SEE SHEET 2)	ACRES
9-4-14.1	ALICE J. & DOUGLAS J. MARTIN	0.905
9-5-5.1	DAVID M. FOLBER, ET UX	6.985
9-5-6.2	MICHAEL JOSEPH SNYDER	2.82
9-5-6.3	DELUCHE BANK NATIONAL TRUST CO.	1.391
9-5-6.4	NANCY L. SNYDER	0.094
9-5-6.5	LONDA GORBY DELBERT	1.087
9-5-6.6	NANCY L. SNYDER	0.129
9-5-6.7	NANCY L. SNYDER	6.678
9-5-6.8	NANCY L. SNYDER	0.691
9-5-7	M.F. CHERCH	81.5 BOWLES 6 AC. (ASSD)
9-5-8.1	ISAC C. KINNEY, ET UX	2.875
9-5-11.2	LARRY WHEITZEL, JR.	2.355
9-5-12	LARRY WHEITZEL, JR.	1.391
9-5-13	SHELLEY ANN JORDAN - GEORGIA JORDAN LIFE ESTATE	5.51
9-5-14.1	SAVANNA WEST, ET AL.	2.819
9-5-14.3	MARK FOX, ET UX	10.714
9-5-17	CARLA SUE CROW	6.341
9-5-19	BELTY R. OIT	0.933
9-5-20	KEITH WILSON - DONALD E. LEACH (LIFE ESTATE)	6.924
9-5-21	RALPH E. WELLMAN, ET UX	1.69
9-7-13.1	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	3.63
9-7-37	CAROL J. ANDERSON - EHT	1.005
9-7-38	VICTOR & CLAIRE CAMERON	1.983
9-7-28.1	NAIHAN WILLIAMS	2.768
9-7-29.1	CAROL J. ANDERSON - EHT	5.004



11 Yehonm Drive | P.O. Box 150 | Glenville, W.V. 26 051 | 304.462.5874  
102 Kanawha Boulevard, East | Charleston, WY 25301 | 304.548.3952  
254 East Buckley Avenue | Beckley, WV 25801 | 304.355.5396  
www.slsinc.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. *C. Victor Moyers*  
849



MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P18HMADR.dwg  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID \_\_\_ WASTE \_\_\_ INJECTION \_\_\_ DISPOSAL \_\_\_ IF \_\_\_  
LOCATION: ELEVATION 1,322.10' 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  
ROYALTY OWNER ANDY PAUL & JACKIE KUHN, ET AL - WW-6A1

PROPOSED WORK:  
DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_  
FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_

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

7.855' B.H. AS DRILLED

4.042' T.H. AS DRILLED

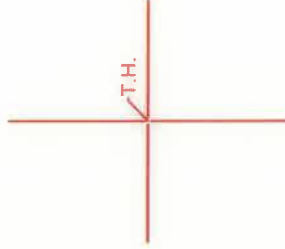
T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°52'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
NAD83 S.P.C.(FT) N. 478,104.71 E. 1,636,709.52  
NAD83 GEO. LAT-(N) 39.808817 LONG-(W) 80.681053  
NAD83 UTM (M) N. 4,406,364.76 E. 527,301.77  
**LANDING POINT**  
NAD83 S.P.C.(FT) N. 479,227.6 E. 1,638,106.3  
NAD83 GEO. LAT-(N) 39.809785 LONG-(W) 80.678132  
NAD83 UTM (M) N. 4,406,665.7 E. 527,721.9  
**BOTTOM HOLE**  
NAD83 S.P.C.(FT) N. 488,451.8 E. 1,639,033.8  
NAD83 GEO. LAT-(N) 39.854292 LONG-(W) 80.694623  
NAD83 UTM (M) N. 4,409,480.0 E. 528,129.6

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

9.659' T.H. AS DRILLED

14.603' B.H. AS DRILLED



**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'
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.

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

DATE JANUARY 17, 20 19  
REVISED MARCH 24, 20 20  
OPERATORS WELL NO. TEN HIGH 1N-18HM

API WELL NO. 47 - 051 - 2019  
STATE COUNTY PERMIT

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



"GAS" PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
GROUND = 1,322.10'  
PROPOSED = 1,310.06'  
MIDDLE BOWMAN RUN OF FISH CREEK (HUC 10)  
MARSHALL QUADRANGLE GLEN EASTON 7.5  
ACREAGE 139.79±  
ACREAGE 139.79±  
LEASE NO. SEE WW-6A1  
FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD  
CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_  
TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH T.V.D: 6.898' / T.MD: 18.054'

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