

7,110' B.H. AS DRILLED 4,054' T.H. AS DRILLED

**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"

9,657' T.H. AS DRILLED 14,350' B.H. AS DRILLED

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

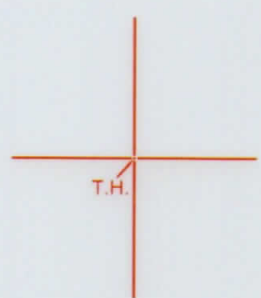
NAD83 S.P.C. (FT)	N. 478,167.69	E. 1,636,697.38
NAD83 GEO.	LAT-(N) 39.806824	LONG-(W) 80.681097
NAD83 UTM (M)	N. 4,406,365.60	E. 527,298.06
<u>LANDING POINT</u>		
NAD83 S.P.C. (FT)	N. 479,584.2	E. 1,638,766.4
NAD83 GEO.	LAT-(N) 39.810787	LONG-(W) 80.673798
NAD83 UTM (M)	N. 4,406,807.7	E. 527,921.2
<u>BOTTOM HOLE</u>		
NAD83 S.P.C. (FT)	N. 488,688.6	E. 1,633,768.3
NAD83 GEO.	LAT-(N) 39.835599	LONG-(W) 80.692019
NAD83 UTM (M)	N. 4,409,555.9	E. 526,352.1

**AS DRILLED COORDINATES
FOR WELL NO. 19HM**

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

NAD83 S.P.C. (FT)	N. 478,167.69	E. 1,636,697.38
NAD83 GEO.	LAT-(N) 39.806824	LONG-(W) 80.681097
NAD83 UTM (M)	N. 4,406,365.60	E. 527,298.06
<u>LANDING POINT</u>		
NAD83 S.P.C. (FT)	N. 479,910.3	E. 1,638,602.7
NAD83 GEO.	LAT-(N) 39.811677	LONG-(W) 80.674397
NAD83 UTM (M)	N. 4,406,906.2	E. 527,869.6
<u>BOTTOM HOLE</u>		
NAD83 S.P.C. (FT)	N. 488,691.0	E. 1,633,777.3
NAD83 GEO.	LAT-(N) 39.835606	LONG-(W) 80.691987
NAD83 UTM (M)	N. 4,409,556.7	E. 526,354.9

MAP PARCEL	ADJOINING SURFACE OWNER LIST (SEE SHEET 2)	ACRES
9-1-14.1	ALICE J. & DOUGLAS J. MARTIN	0.905
9-5-5.1	DAVID M. TOLER, ET UX	0.985
9-5-6.1	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. OIT	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

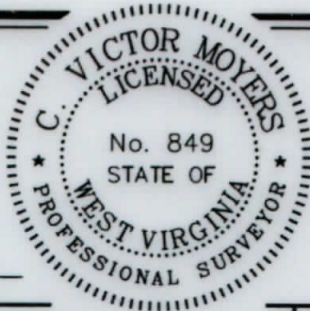


NOTES ON SURVEY

- 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.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsrv.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. 849 C. Victor Moyers

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 24, 20 20
REVISED _____, 20 ____
OPERATORS WELL NO. TEN HIGH 1N-19HM
API WELL NO. 47 - 051 - 2017
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P19HMAD.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 X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: GROUND = 1,321.20' 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 - WW-6A1 ACREAGE 139.79±

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X 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

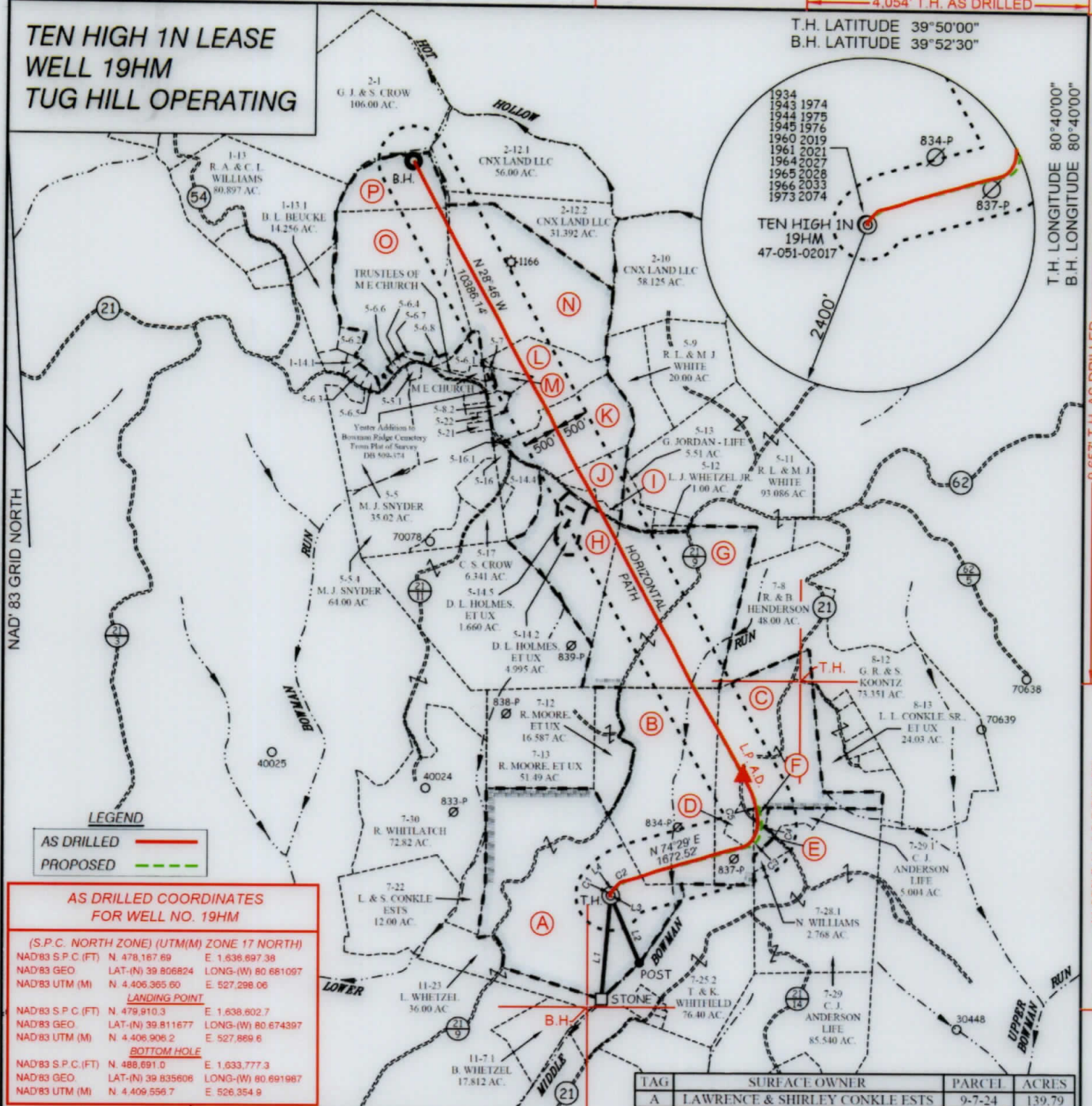
COUNTY NAME PERMIT

7,110' B.H. AS DRILLED 4,054' T.H. AS DRILLED

**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"



LEGEND

- AS DRILLED —
- PROPOSED - - -

**AS DRILLED COORDINATES
FOR WELL NO. 19HM**

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LANDING POINT

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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



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 sls.com

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'

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

P.S. 849 *C. Victor Moyers*

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

SCALE 1" = 2000' FILE NO. 8655P19HMAD.dwg

DATE MARCH 24, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. TEN HIGH 1N-19HM

API WELL NO. 47 — 051 — 2017
 NO. STATE COUNTY PERMIT

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



WELL OPERATOR TUG HILL OPERATING, LLC
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 FORT WORTH, TX 76107

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