

9,781' B.H. AS DRILLED

4,046' T.H. AS DRILLED

LATITUDE 39°50'00"

TEN HIGH 1N LEASE
WELL 1HM
TUG HILL OPERATING

B.H.

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

NAD'83 S.P.C.(FT) N. 478,144.32 E. 1,636,704.52
NAD'83 GEO. LAT.(N) 39.806760 LONG.(W) 80.681070
NAD'83 UTM (M) N. 4,406,358.52 E. 527,300.35

LANDING POINT

NAD'83 S.P.C.(FT) N. 477,753.6 E. 1,635,513.2
NAD'83 GEO. LAT.(N) 39.805645 LONG.(W) 80.685292
NAD'83 UTM (M) N. 4,406,233.4 E. 526,939.4

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 485,817.8 E. 1,631,081.5
NAD'83 GEO. LAT.(N) 39.827620 LONG.(W) 80.701449
NAD'83 UTM (M) N. 4,408,667.6 E. 525,548.2

LONGITUDE 80°40'00"

9,660' T.H. AS DRILLED

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

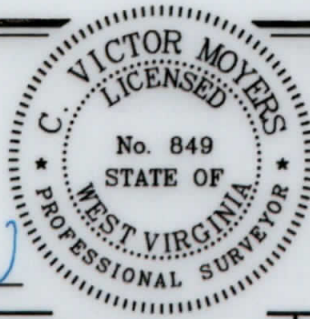


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.348.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com

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 JANUARY 17, 20 19
REVISED MARCH 24, 20 20
OPERATORS WELL NO. TEN HIGH 1N-1HM
API WELL NO. 47 - 051 - 1943
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P1HMADR.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 : ELEVATION GROUND = 1,320.30' 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 WW-6A1 ACREAGE 139.79±
PROPOSED WORK : LEASE NO. SEE WW-6A1
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: 16.501'

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

9,781' B.H. AS DRILLED

4,046' T.H. AS DRILLED

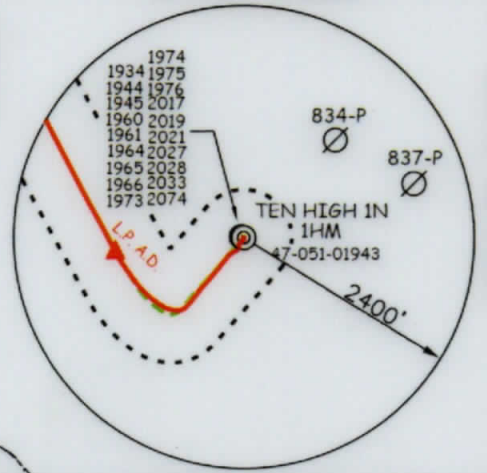
LATITUDE 39°50'00"

LONGITUDE 80°40'00"

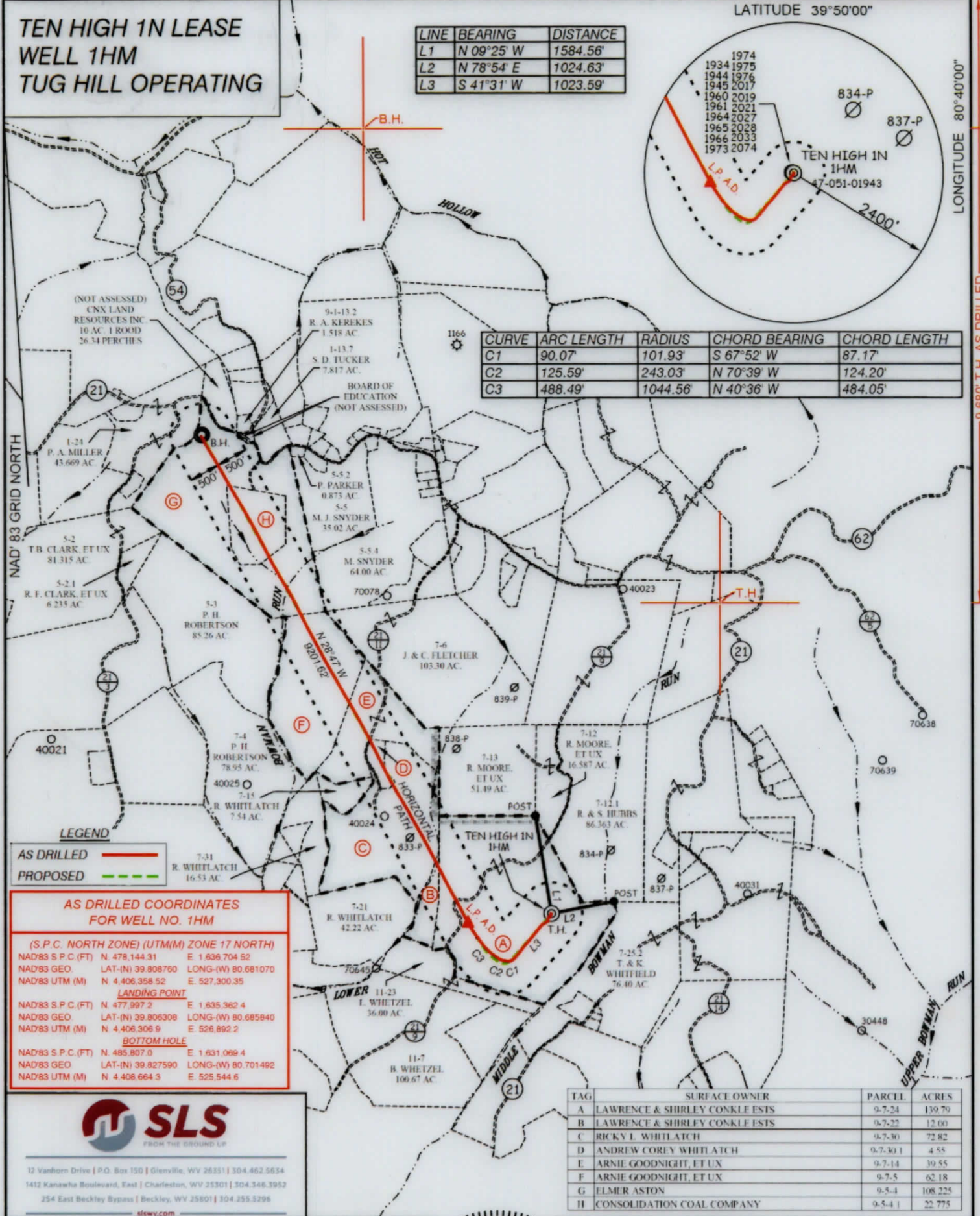
9,680' T.H. AS DRILLED

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

LINE	BEARING	DISTANCE
L1	N 09°25' W	1584.56'
L2	N 78°54' E	1024.63'
L3	S 41°31' W	1023.59'



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	90.07'	101.93'	S 67°52' W	87.17'
C2	125.59'	243.03'	N 70°39' W	124.20'
C3	488.49'	1044.56'	N 40°36' W	484.05'



AS DRILLED COORDINATES FOR WELL NO. 1HM

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 NAD'83 UTM (M) N. 4,406,358.52 E. 527,300.35

LANDING POINT

NAD'83 S.P.C.(FT) N. 477,997.2 E. 1,635,362.4
 NAD'83 GEO. LAT-(N) 39.806308 LONG-(W) 80.685840
 NAD'83 UTM (M) N. 4,406,306.9 E. 526,892.2

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 485,807.0 E. 1,631,069.4
 NAD'83 GEO. LAT-(N) 39.827590 LONG-(W) 80.701492
 NAD'83 UTM (M) N. 4,408,664.3 E. 525,544.6

TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.70
B	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-22	12.00
C	RICKY L. WHITLATCH	9-7-30	72.82
D	ANDREW COREY WHITLATCH	9-7-30.1	4.55
E	ARNIE GOODNIGHT, ET UX	9-7-14	39.55
F	ARNIE GOODNIGHT, ET UX	9-7-5	62.18
G	ELMER ASTON	9-5-4	108.225
H	CONSOLIDATION COAL COMPANY	9-5-4.1	22.775



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P.S. 849 *C. Victor Moyers*

SCALE 1" = 2000' FILE NO. 8655P1HMADR.dwg

DATE JANUARY 17, 20 19

REVISED MARCH 24, 20 20

OPERATORS WELL NO. TEN HIGH 1N-1HM

API WELL NO. 47 - 051 - 1943

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-6A1)

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