

**TEN HIGH 1N LEASE
WELL 2HM
TUG HILL OPERATING**

8,641' B.H. AS DRILLED
4,034' T.H. AS DRILLED

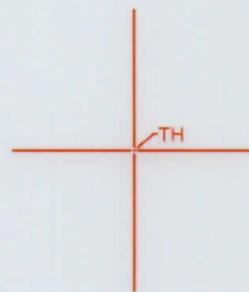
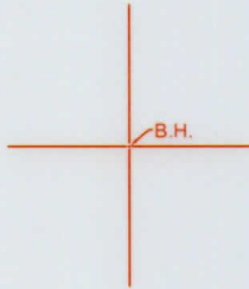
LATITUDE 39°50'00"

LONGITUDE 80°40'00"

2,597' B.H.A.D.

9,683' T.H. AS DRILLED

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 478,141.34 E. 1,636,716.66
 NAD'83 GEO. LAT-(N) 39.806753 LONG-(W) 80.681027
 NAD'83 UTM (M) N. 4,406,357.67 E. 527,304.07
LANDING POINT
 NAD'83 S.P.C.(FT) N. 478,128.4 E. 1,636,241.3
 NAD'83 GEO. LAT-(N) 39.806700 LONG-(W) 80.682718
 NAD'83 UTM (M) N. 4,406,351.3 E. 527,159.3
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 485,288.1 E. 1,632,201.6
 NAD'83 GEO. LAT-(N) 39.826207 LONG-(W) 80.697436
 NAD'83 UTM (M) N. 4,408,512.0 E. 525,892.2



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-1-13.2	RANDALL A. KEREKES	1.518
9-1-13.6	GERALD E. LOGSDON, ET UX	7.621
9-5-5.1	DAVID M. TOLER, ET UX	0.985
9-5-5.2	PETER PARKER	0.873
9-5-5.3	MICHAEL J. & NANCY L. SNYDER	1.870
9-5-6.1	JON B. CRAWFORD	4.679
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
9-5-6.8	NANCY L. SNYDER	0.691
9-5-17	CARLA SUE CROW	6.341
9-5-20	KEITH WILSON - DONALD E. LEACH (LIFE ESTATE)	6.924
9-5-21	RALPH E. WELLMAN, ET UX	1.00
9-5-22	RALPH E. WELLMAN, ET UX	0.5
9-5-23	RALPH E. WELLMAN, ET UX	1.00
9-5-24	ALVIE & MARCELLA DARRAH	1.986
9-7-30.1	ANDREW COREY WHITLATCH	4.55

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.

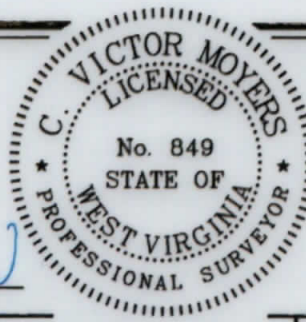


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26331 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slswv.com

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-2HM
 API WELL NO. 47 - 051 - 1934
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P2HMADR.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 = 1,321.00' 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 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: 15,329'

COUNTY NAME

PERMIT

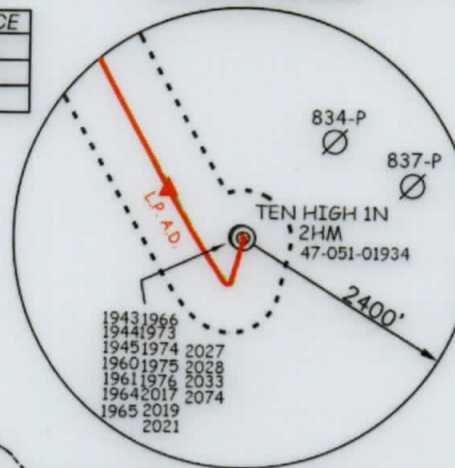
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS CT CORPORATION SYSTEM
FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

**TEN HIGH 1N LEASE
WELL 2HM
TUG HILL OPERATING**

LINE	BEARING	DISTANCE
L1	N 09° 49' W	1589.53'
L2	N 78° 36' E	1013.30'
L3	S 13° 37' W	482.19'

8,641' B.H. AS DRILLED
4,034' T.H. AS DRILLED

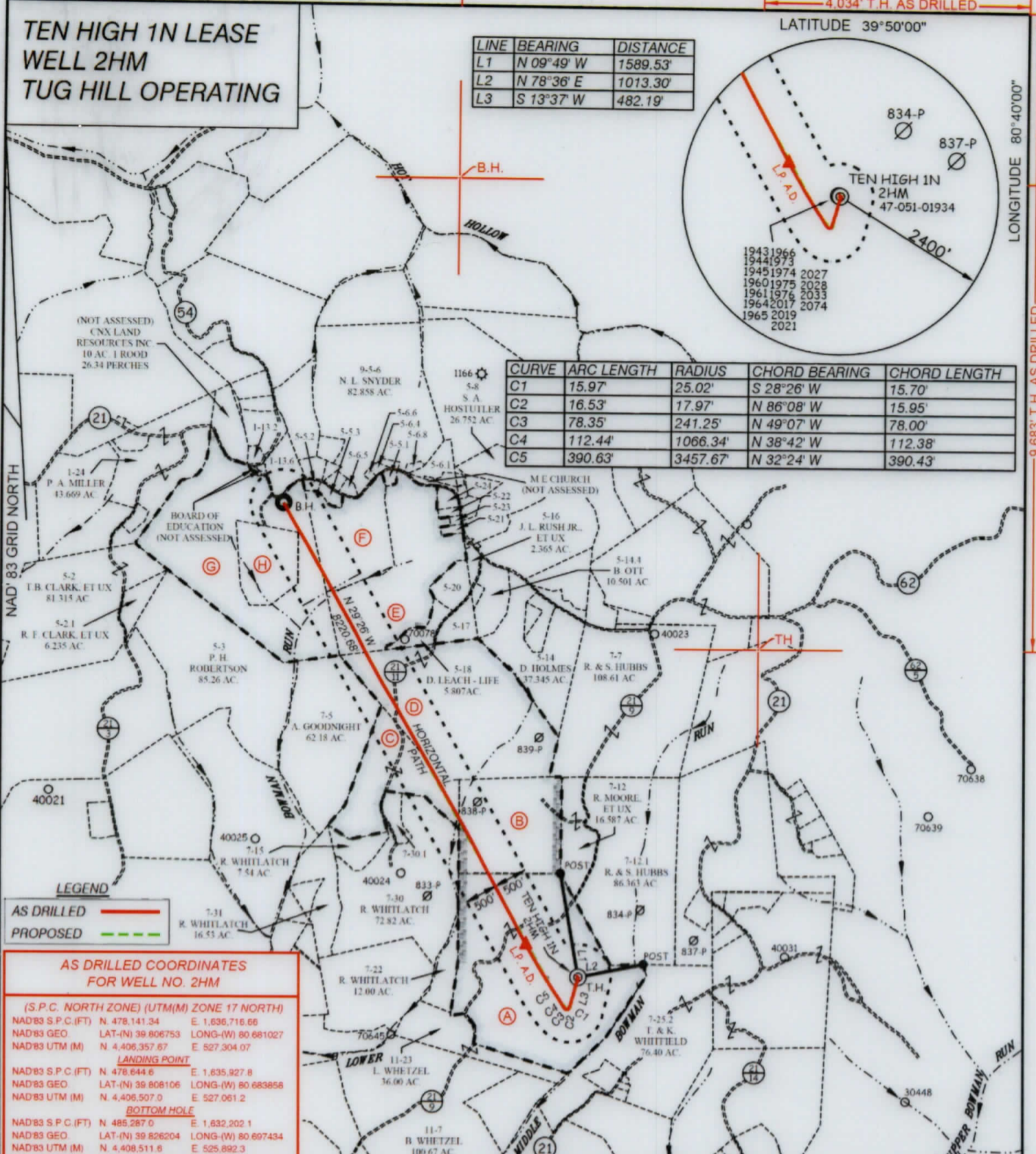
LATITUDE 39° 50' 00"



LONGITUDE 80° 40' 00"

9,683' T.H. AS DRILLED

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	15.97'	25.02'	S 28° 26' W	15.70'
C2	16.53'	17.97'	N 86° 08' W	15.95'
C3	78.35'	241.25'	N 49° 07' W	78.00'
C4	112.44'	1066.34'	N 38° 42' W	112.38'
C5	390.63'	3457.67'	N 32° 24' W	390.43'



LEGEND
 AS DRILLED ——— (Red solid line)
 PROPOSED - - - - - (Green dashed line)

AS DRILLED COORDINATES FOR WELL NO. 2HM

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

NAD83 S.P.C.(FT) N. 478,141.34 E. 1,636,716.66
 NAD83 GEO. LAT-(N) 39.806753 LONG-(W) 80.681027
 NAD83 UTM (M) N. 4,406,357.67 E. 527,304.07

LANDING POINT

NAD83 S.P.C.(FT) N. 478,644.6 E. 1,635,927.8
 NAD83 GEO. LAT-(N) 39.808106 LONG-(W) 80.683858
 NAD83 UTM (M) N. 4,406,507.0 E. 527,061.2

BOTTOM HOLE

NAD83 S.P.C.(FT) N. 485,287.0 E. 1,632,202.1
 NAD83 GEO. LAT-(N) 39.826204 LONG-(W) 80.697434
 NAD83 UTM (M) N. 4,408,511.8 E. 525,892.3

SLS
 FROM THE GROUND UP

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 | 304.295.5296
 slsvv.com

TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	RONALD MOORE ET UX	9-7-13	51.49
C	ARNIE GOODNIGHT ET UX	9-7-14	39.55
D	TERESA L. HORNER WITH JERRY G. & CAROLYN K. FLETCHER (LIFE ESTATE)	9-7-6	103.30
E	MICHAEL JOSEPH SNYDER	9-5-4	64.00
F	MICHAEL JOSEPH SNYDER	9-5-5	35.02
G	ELMER ASTON	9-5-4	108.225
H	CONSOLIDATION COAL COMPANY	9-5-1	22.775

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

NAD83 S.P.C.(FT) N. 478,141.34 E. 1,636,716.66
 NAD83 GEO. LAT-(N) 39.806753 LONG-(W) 80.681027
 NAD83 UTM (M) N. 4,406,357.67 E. 527,304.07

LANDING POINT

NAD83 S.P.C.(FT) N. 478,128.4 E. 1,636,241.3
 NAD83 GEO. LAT-(N) 39.806700 LONG-(W) 80.682718
 NAD83 UTM (M) N. 4,406,351.3 E. 527,159.3

BOTTOM HOLE

NAD83 S.P.C.(FT) N. 485,288.1 E. 1,632,201.6
 NAD83 GEO. LAT-(N) 39.826207 LONG-(W) 80.697436
 NAD83 UTM (M) N. 4,408,512.0 E. 525,892.2



(+) 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)

SCALE 1" = 2000' FILE NO. 8655P2HMADR.dwg

DATE JANUARY 17, 20 19

REVISED MARCH 24, 20 20

OPERATORS WELL NO. TEN HIGH 1N-2HM

API WELL NO. 47 - 051 - 1934

NO. STATE COUNTY PERMIT

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

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