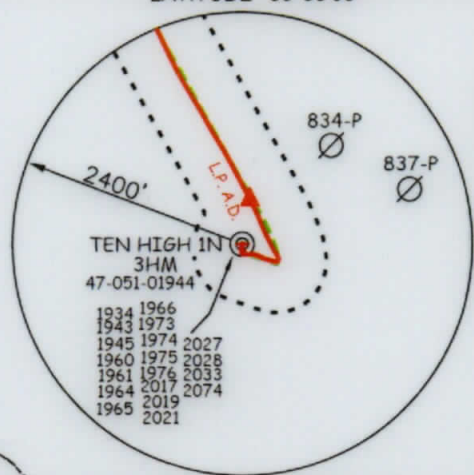


**TEN HIGH 1N LEASE
WELL 3HM
TUG HILL OPERATING**

8.048' B.H. AS DRILLED
4.022' T.H. AS DRILLED

LATITUDE 39°50'00"

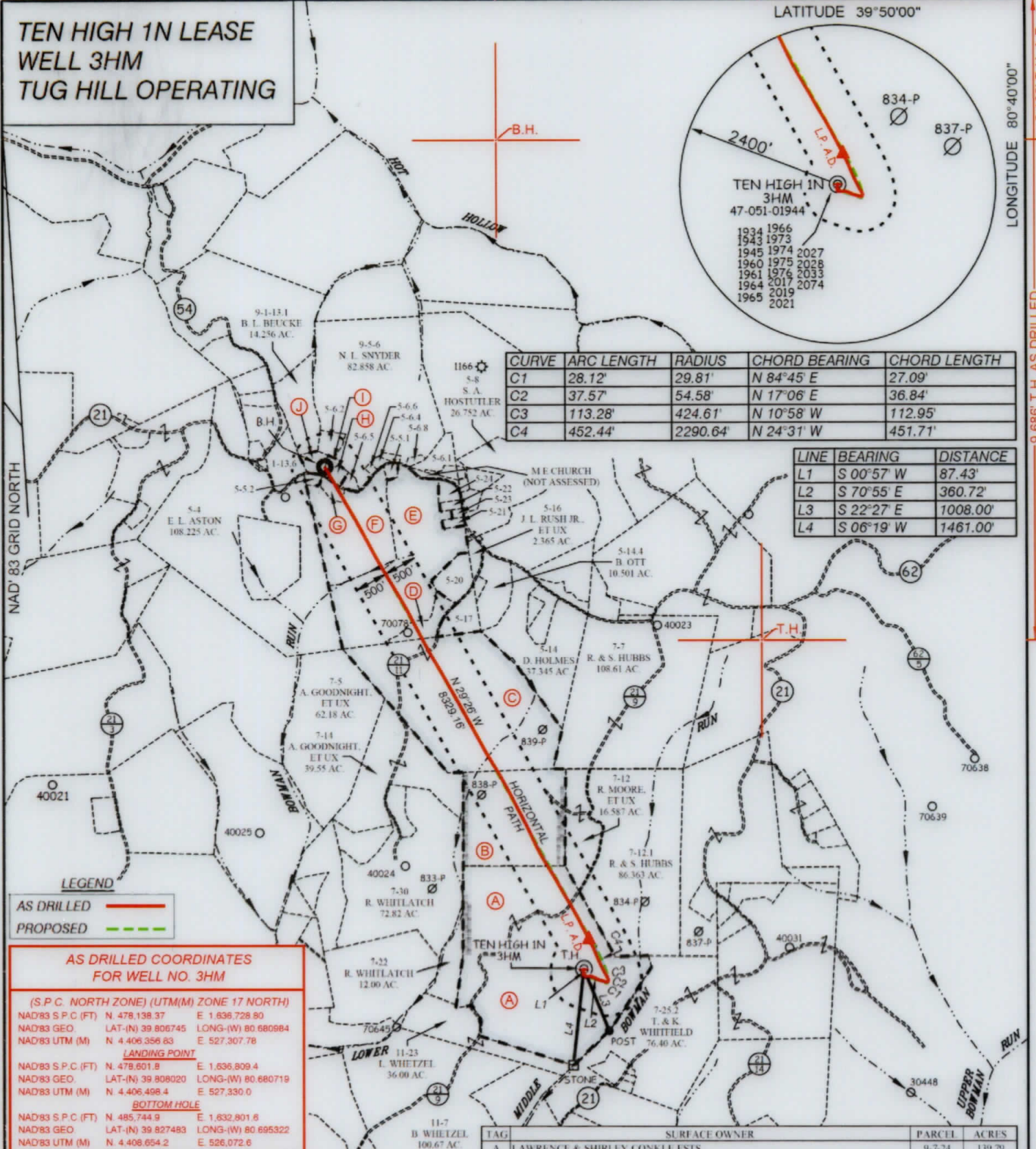
LONGITUDE 80°40'00"



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	28.12'	29.81'	N 84°45' E	27.09'
C2	37.57'	54.58'	N 17°06' E	36.84'
C3	113.28'	424.61'	N 10°58' W	112.95'
C4	452.44'	2290.64'	N 24°31' W	451.71'

LINE	BEARING	DISTANCE
L1	S 00°57' W	87.43'
L2	S 70°55' E	360.72'
L3	S 22°27' E	1008.00'
L4	S 06°19' W	1461.00'

NAD'83 GRID NORTH



LEGEND

- AS DRILLED (solid red line)
- PROPOSED (dashed green line)

AS DRILLED COORDINATES FOR WELL NO. 3HM

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

NAD'83 S.P.C. (FT)	N. 478,138.37	E. 1,636,728.80
NAD'83 GEO.	LAT. (N) 39.806745	LONG. (W) 80.680984
NAD'83 UTM (M)	N. 4,406,356.83	E. 527,307.78

LANDING POINT

NAD'83 S.P.C. (FT)	N. 478,601.8	E. 1,636,809.4
NAD'83 GEO.	LAT. (N) 39.808020	LONG. (W) 80.680719
NAD'83 UTM (M)	N. 4,406,498.4	E. 527,330.0

BOTTOM HOLE

NAD'83 S.P.C. (FT)	N. 485,744.9	E. 1,632,801.8
NAD'83 GEO.	LAT. (N) 39.827483	LONG. (W) 80.695322
NAD'83 UTM (M)	N. 4,408,654.2	E. 526,072.6

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	TERESA L. HORNER WITH JERRY G. & CAROLYN K. FLETCHER (LIFE ESTATE)	9-7-6	103.30
D	KELLY WILSON WITH DONLD E. LEACH (LIFE ESTATE)	9-5-18	5.807
E	MICHAEL JOSEPH SNYDER	9-5-5.4	64.00
F	MICHAEL JOSEPH SNYDER	9-5-5	35.02
G	MICHAEL JOSEPH SNYDER & NANCY L. SNYDER	9-5-5.3	1.870
H	DELTCHE BANK NATIONAL TRUST CO	9-5-6.3	1.191
I	ALICE J. & DOUGLAS J. MARTIN	9-1-14.1	0.905
J	ALICIA JANE MARTIN	9-1-14	2.4602



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5534
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.348.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slswv.com

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

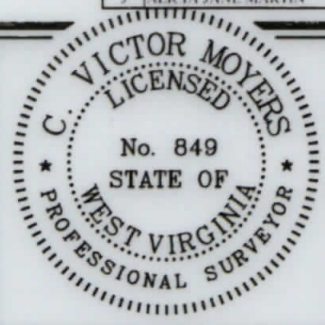
NAD'83 S.P.C. (FT)	N. 478,138.37	E. 1,636,728.80
NAD'83 GEO.	LAT. (N) 39.806745	LONG. (W) 80.680984
NAD'83 UTM (M)	N. 4,406,356.83	E. 527,307.78

LANDING POINT

NAD'83 S.P.C. (FT)	N. 478,492.6	E. 1,636,897.2
NAD'83 GEO.	LAT. (N) 39.807723	LONG. (W) 80.680401
NAD'83 UTM (M)	N. 4,406,465.6	E. 527,357.3

BOTTOM HOLE

NAD'83 S.P.C. (FT)	N. 485,746.3	E. 1,632,803.5
NAD'83 GEO.	LAT. (N) 39.827487	LONG. (W) 80.695315
NAD'83 UTM (M)	N. 4,408,654.7	E. 526,073.2



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

P.S. 849 *C. Victor Moyers*

LEGEND

- LEASE LINE (dashed line)
- SURFACE LINE (solid line)
- WELL LATERAL (dotted line)
- OFFSET LINE (long-dashed line)
- TIE LINE (dash-dot line)
- CREEK (line with wavy arrows)
- ROAD (line with double arrows)
- COUNTY ROUTE (line with 'R' and number)
- PROPOSED WELL (circle with 'P')
- EXISTING WELL (circle with 'E')
- PERMITTED WELL (circle with 'M')
- TAX MAP-PARCEL (circle with 'A')
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

SCALE 1" = 2000' FILE NO. 8655P3HMADR.dwg
 DATE JANUARY 17, 20 19
 REVISED MARCH 24, 20 20
 OPERATORS WELL NO. TEN HIGH 1N-3HM
 API WELL NO. 47 - 051 - 1944
 NO. STATE COUNTY PERMIT

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

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

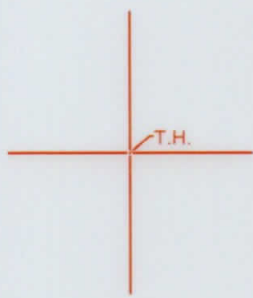
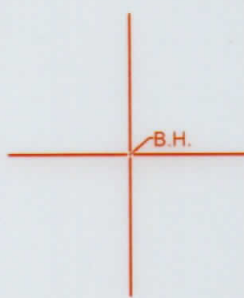
COUNTY NAME PERMIT

**TEN HIGH 1N LEASE
WELL 3HM
TUG HILL OPERATING**

LATITUDE 39°50'00"

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

NAD'83 S.P.C.(FT)	N. 478,138.37	E. 1,636,728.80
NAD'83 GEO.	LAT (N) 39.806745	LONG (W) 80.680984
NAD'83 UTM (M)	N. 4,406,356.83	E. 527,307.78
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 478,492.6	E. 1,636,897.2
NAD'83 GEO.	LAT (N) 39.807723	LONG (W) 80.680401
NAD'83 UTM (M)	N. 4,406,465.6	E. 527,357.3
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 485,746.3	E. 1,632,803.5
NAD'83 GEO.	LAT (N) 39.827487	LONG (W) 80.695315
NAD'83 UTM (M)	N. 4,408,654.7	E. 526,073.2



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
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
9-5-6.1	JON B. CRAWFORD	4.679
9-5-6.2	MICHAEL JOSEPH SNYDER	2.82
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	RALPHE WELLMAN, ET UX	1.00
9-5-22	RALPHE WELLMAN, ET UX	0.5
9-5-23	RALPHE WELLMAN, ET UX	1.00
9-5-24	ALVIE & MARCELLA DARRAH	1.986

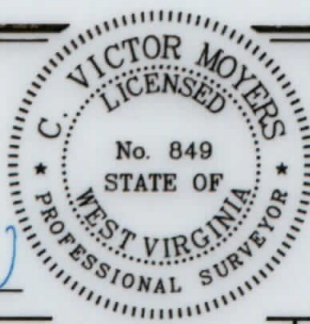
NOTES ON SURVEY

- 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 26331 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsvv.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-3HM
 API WELL NO. 47 - 051 - 1944
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P3HMADR.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 INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 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 - SEE 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: 15.465'

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

LONGITUDE 80°40'00"
 8,048' B.H. AS DRILLED
 4,022' T.H. AS DRILLED
 9,686' T.H. AS DRILLED